

**FIGURE 1**

AGGCGGGCAGCAGCTGCAGGCTGACCTGCAGCTTGGCGGA**ATG**GACTGGCCTCACAAACCTGCTGTTCTT  
CTTACCATTTCCATCTTCCTGGGCTGGGCCAGCCCAGGAGCCCCAAAAGCAAGAGGAAGGGCAAGGGC  
GCCTGGGCCCTGGCCCTGGCCCTCACCAAGGTGCCACTGGACCTGGTGTACGGATGAAACCGTATGCC  
GCATGGAGGAGTATGAGAGGAACATCGAGGAGATGGTGGCCAGCTGAGGAACAGCTCAGAGCTGGCCAG  
AGAAAGTGTGAGGTCAACTTGAGCTGTGGATGTCCAACAAGAGGAGCCTGTCTCCCTGGGCTACAGCAT  
CAACCACGACCCAGCCGTATCCCGTGGACCTGCCGGAGGCACGGTGCCTGTGTCTGGGCTGTGAACC  
CCTTCACCATGCAGGAGGACCGCAGCATGGTAGCGTGCCGGTTCAGCCAGGTTCCGTGCGCCGCC  
CTCTGCCGCCACGGCCCGCACAGGGCTTGCCGCCAGCGCAGTCATGGAGACCATCGCTGTGGGCTG  
CACCTGCATCTTCT**TGA**ATCACCTGGCCCAGAACGCCAGCAGCCAGAACCATCCTCCTGACACCTT  
GTGCCAAGAAAGGCCATTGAAAAGTAACACTGACTTTGAAAGCAAG

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FIGURE 2

MDWPHNLLFLLTISIFLGLGQPRSPKSKRKGQGRGPLAPGPHQVPLDLVSRMKPYARMEYERNIEEMVA  
QLRNSSELAQRKCEVNQLQWMSNKRSLSPWGYSHDPSRIPVDSLPEARCLCLGCVNPFTMQEDRSMVSVP  
VFSQVPVRRRLCPPPPRTGPCRQRAVMETIAVGCTCIF

FIGURE 3

GCCAGGTGTGCAGGCCGCTCCAAGCCCAGCCTGCCCGCTGCCGCCACCATGACGCTCCTCCCCGGCCTCC  
TGTTTCTGACCTGGCTGCACACATGCCTGGCCCACCATGACCCCTCCCTCAGGGGGCACCCCCACAGTCAC  
GGTACCCCACACTGCTACTCGGCTGAGGAACCTGCCCTCGGCCAGGCCCCCCCACACCTGCTGGCTCGAGG  
TGCCAAGTGGGGCAGGCTTGCCTGTAGCCCTGGTGTCCAGCCTGGAGGCAGCAAGCCACAGGGGGAGGC  
ACGAGAGGCCCTCAGCTACGACCCAGTGCCCGGTGCTGCGCCGGAGGAGGTGTTGGAGGCAGACACCCAC  
CAGCGCTCCATCTCACCCCTGGAGATAACCGTGTGGACACGGATGAGGACCGCTATCCACAGAAAGCTGGCCTT  
CGCCGAGTGCGTGTGCAGAGCCTGTATCGATGCACGGACGGGCCGCGAGACAGCTGCGCTCAACTCCGTGC  
GGCTGCTCCAGAGCCTGCTGGTGTGCGCCGCCGCTGCTCCCGCACGGCTGGGCTCCCCACACCT  
GGGCCTTGCCTCCACACCGAGTTCATCCACGTCCCCGTGGCTGCACCTGCGTGTGCCCCGTTCAAGT  
GTGACCGCCGAGGCCGTGGGGCCCTAGACTGGACACGTGTGCTCCCCAGAGGGCACCCCCCTATTATGTG  
TATTTATTGTTATTATGCCTCCCCAACACTACCCCTGGGTCTGGCATTCCCCGTGTGGAGGAC  
AGCCCCCACTGTTCTCCATCTCAGCCTCAGTAGTTGGGGTAGAAGGAGCTCAGCACCTTCCAGC  
CCTTAAAGCTGCAGAAAAGGTGTACACGGCTGCCTGTACCTGGCTCCCTGCTCCGGCTTCC  
TACCCCTATCACTGGCCTCAGGCCCGCAGGCTGCCTTCCAACCTCCTTGGAAAGTACCCCTGTTCTTA  
AACATTATTAAAGTGTACGTGTATTAAACTGATGAACACATCCCCAAA

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FIGURE 4

MTLLPGLLFLTWLHTCLAHHDPSLRGHPHSHGTPHCYSAEELPLGQAPPPLLARGAKWGQALPVALVSSLE  
AASHRGRHERPSATTQCPVLRPEEVLEADTHQRSISPWRYRVDTDEDRYPQKLAFAECLCRGCIDARTGRE  
TAALNSVRLLQSLLVLRRRPCSRDGSGLPTPGAFAFHTEFIHVPVGCTCVLPRSV

Signal peptide:	Amino acids 1-18
Tyrosine kinase phosphorylation site:	Amino acids 112-121
N-myristoylation sites:	Amino acids 32-38;55-61;133-139
Leucine zipper pattern:	Amino acids 3-25
Homologous region to IL-17:	Amino acids 99-195

### FIGURE 5

GGCTTGCTGAAAATAAAATCAGGACTCCTAACCTGCTCCAGTCAGCCTGCTTCCACGAGGCCTGTCAGTC  
GTGCCCGACTTGTGACTGAGTGTGCAGTGCCCAGCATGTACCAGGTCAAGTGCAGAGGGCTGCCTGAGGGCT  
GTGCTGAGAGGGAGAGGAGCAGAGATGCTGCTGAGGGTGGAGGGAGGCCAAGCTGCCAGGTTGGGCTGG  
GGGCCAAGTGGAGTGAGAAACTGGGATCCCAGGGGAGGGTGCAG **ATG**AGGGAGCGACCCAGATTAGGTGA  
GGACAGTTCTCTCATTAGCCTTTCTACAGGTGGTGCATTCTGGCAATGGTCAATGGGAACCCACACCT  
ACAGCCACTGGCCCAGCTGCTGCCCCAGCAAAGGGCAGGACACCTCTGAGGAGCTGCTGAGGTGGAGCACT  
GTGCCTGTGCCTCCCCTAGAGCCTGCTAGGCCAACGCCACCCAGAGTCCTGTAGGCCAGTGAAGATGGA  
CCCCCTCAACAGCAGGGCCATCTCCCCCTGGAGATATGAGTTGGACAGAGACTGAAACGGCTCCCCCAGGA  
CCTGTACCACGCCCGTGCCTGTGCCCGACTGCGTCAGCCTACAGACAGGCTCCACATGGACCCCCGGG  
GCAACTCGGAGCTGCTCTACCACAACCAGACTGTCTCTACAGGCGGCCATGCCATGGCGAGAAGGGCACC  
CACAAGGGCTACTGCCTGGAGCGCAGGCTGTACCGTGTTCCTAGCTGTGTGTGTGCCGGCCCCGTGT  
GATGGGCTAGCCGGACCTGCTGGAGGCTGGTCCCTTTGGGAAACCTGGAGCCAGGTGTACAACCACTTG  
CCATGAAGGGCAGGATGCCAGATGCTGGCCCTGTGAAGTGCTGTGGAGCAGCAGGATCCGGGAC  
AGGATGGGGGGCTTGGGAAAACCTGCACTTCTGCACATTGAAAAGAGCAGCTGCTGCTTAGGCCCGC  
CGGAAGCTGGTGTCTGTCAATTCTCTCAGGAAAGGTTCAAAGTCTGCCATTCTGGAGGCCACCA  
CTCTGTCTCTTCTCTTCCATCCCTGCTACCCCTGGCCAGCACAGGCACATTCTAGATATTCCCC  
CTTGCTGGAGAAGAAAAGAGCCCTGGTTTATTGTTACTCATCACTCAGTGAGCATCTACTTTGG  
GTGCATTCTAGTGTAGTTACTAGTCTTTGACATGGATGATTCTGAGGAGGAAGCTGTTATTGAATGTATA  
GAGATTATCCAAAATAATCTTATTAAAAATGAAAAA

FIGURE 6

MRERPRLGEDSSLISLFLQVVAFLAMVMGTHTYSHWPSCCP SKGQDTSEELL RWSTVPVPPLEPARPNRHP  
ESCRASEDGPLNSRAISPWRYELDRDLNRLPQDLYHARCLCPHC VSLQTGSHMDPRGNSELLYHNQTVFYR  
RPCHGEKGTHKGYCLERRLYRVSLACVCVRPRVMG

Signal peptide: Amino acids 1-32

N-glycosylation site: Amino acids 136-140

Tyrosine kinase phosphorylation site: Amino acids 127-135

N-myristoylation sites: Amino acids 44-50;150-156

PROTEIN SEQUENCES

FIGURE 7

**ATGCTGGTAGCCGGCTCCTGCTGGCGCTGCCGCCAGCTGGCCGGCGCCCCAGGGCGGGCAGGCG**  
CCCCCGCGGGCGCGGGGCTGCGCGGACCGCCGGAGGAGCTACTGGAGCAGCTGTACGGGCGCCTGGCG  
CCGGCGTGCTCAGTGCCTTCCACACACGCTGCAGCTGGGCGCGTGAGCAGGCGCAACGCGAGCTGC  
CCGGCAGGGGGCAGGCCCGCGACCGCCGCTTCCGGCCGCCACCAACCTGCGCAGCGTGTGCCCTGGC  
CTACAGAATCTCCTACGACCCGGCGAGGTACCCCAGGTACCTGCCTGAAGCCTACTGCCTGTGCCGGGCT  
GCCTGACCGGGCTGTTGGCGAGGAGGACGTGCGCTTCCGAGCGCCCCTGTCTACATGCCAACCGTC  
CTGCGCCGCACCCCCGCGTGCGCCGGCGCCGTTCCGTCTACACCAGGCCTACGTACCATCCCCGTGG  
CTGCACCTGCGTCCCCGAGCGGAGAAGGACGACAGACAGCATCAACTCCAGCATTGACAAACAGGGCGCA  
AGCTCCTGCTGGGCCCCAACGACGCGCCCGTGGCCCTGAGGCCGGTCTGCCCGGGAGGTCTCCCCGG  
CCCGCATCCGAGGCGCCAAGCTGGAGCCGCTGGAGGGCTCGTCCGGCACCTCTGAAGAGAGTGCACC  
GAGCAAACCAAGTGCAGGAGCACCAGCGCCGCTTCCATGGAGACTCGTAAGCAGCTTCATCTGACACGG  
GCATCCCTGGCTTGCTTTAGCTACAAGCAAGCAGCGTGGCTGGAAAGCTGATGGAAACGACCCGGCACGG  
GCATCCTGTGTGCGGCCCGCATGGAGGGTTGGAAAAGTTACGGAGGCTCCCTGAGGAGCCTCTCAGATC  
GGCTGCTGCGGGTGCAGGGCGTGACTCACCGCTGGGTGCTGCCAAAGAGATAAGGACGCAATGCTTTTT  
AAAGCAATCTAAAATAATAAGTATAGCGACTATACCTACTTTAAAATCAACTGTTGAATAGA  
GGCAGAGCTATTTATATTCAAATGAGAGCTACTCTGTTACATTCTAACATATAAACATCGTTTT  
ACTTCTCTGGTAGAATTTTAAAGCATAATTGGAATCCTGGATAAATTTGTAGCTGGTACACTCTGG  
CCTGGGTCTCTGAATTAGCCTGTACCGATGGCTGACTGATGAAATGGACACGTCTCATCTGACCCACTC  
TTCCTCCACTGAAGGTCTTCACGGGCCTCCAGGTGGACCAAGGGATGCACAGCGGCTCGCATGCCCA  
GGGCCAGCTAAGAGTTCAAAGATCTCAGATTGGTTAGTCATGAATACATAAACAGTCTCAAACCTCGC  
ACAATTTTCCCCCTTTGAAAGCCACTGGGCAATTGTTAGGTTAAGAGGTGGTGGAGATAAGAAGTGG  
ACGTGACATCTTGCCAGTTGTCAGAAGAATCCAAGCAGGTATTGGCTTAGTTGTAAGGGCTTAGGATCA  
GGCTGAATATGAGGACAAAGTGGGCCACGTTAGCATCTGCAGAGATCAATCTGGAGGCTCTGTTCTGCA  
TTCTGCCACGAGAGCTAGGTCTTGATCTTTCTTAGATTGAAAGTCTGTCTCTGAACACAATTATTGT  
AAAAGTTAGTAGTTCTTTAAATCATTAAAAGAGGCTGCTGAAGGAT

FIGURE 8

MLVAGFLLALPPSWAAGAPRAGRPARPRGCADRPEELLEQLYGRILAAGVLSAFHHTLQLGPREQARNASC  
PAGGRPGDRRFRPPTNLRSVSPWAYRISYDPARYPRYLPEAYCLCRGCLTGLFGEEDVRFRSAPVYMPVV  
LR RTPACAGGRSVYTEAYVTIPVGCTCVPPEKDADSINSSIDKQGAKLLLGPNDAPAGP

Signal peptide: Amino acids 1-15

N-glycosylation sites: Amino acids 68-72; 181-185

Tyrosine kinase phosphorylation site: Amino acids 97-106

N-myristoylation sites: Amino acids 17-23; 49-55; 74-80;  
118-124

Amidation site: Amino acids 21-25

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FIGURE 9

CAACTGCACCTCGTTCTATCGATAGCCACCAGCGAACATGACAGTGAAGACCCCTGCATGGCCCAGCCAT  
GGTCAAGTACTTGCTGCTGATATTGGGGCTTCGCCTTCTGAGTGAGGCGGCAGCTCGAAAATCCCCA  
AAGTAGGACATACTTTTCCAAAAGCCTGAGAGTTGCCGCCTGTGCCAGGAGGTAGTATGAAGCTTGAC  
ATTGGCATCATCAATGAAAACCAGCGCGTTCCATGTCACGTAACATCGAGAGCCGCTCCACCTCCCCCTG  
GAATTACACTGTCACTTGGGACCCCAACCGGTACCCCTCGAAGTTGACAGGCCAGTGTAGGAACCTGG  
GCTGCATCAATGCTCAAGGAAAGGAAGACATCTCCATGAATTCCGTTCCATCCAGCAAGAGACCTGGTCGTC  
CGGAGGAAGCACCAAGGCTGCTCTGTTCTTCCAGTTGGAGAAGGTGCTGGTGAUTGTTGGCTGCACCTG  
CGTCACCCCTGTCATCCACCATGTGCAGTAAGAGGTGCATATCCACTCAGCTGAAGAAG

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FIGURE 10

MTVKTLHGPAMVKYLLLSILGLAFLSEAAARKIPKVGHTFFQKPESCPVPGGSMKLDIGIINENQRVSMS  
RNIESRSTSPWNYTVTWDPNRYPSEVVQAQCRLGCINAQGKEDISMNSVPIQQETLVVRRKHQGCSVSFQ  
LEKVLVTVGCTCVTPVIHHQ

Signal sequence: Amino acids 1-30

N-glycosylation site: Amino acids 83-86

N-myristoylation sites: Amino acids 106-111;136-141

FIGURE 11

CGGGCGATGTCGCTCGTGTGCTAACGCCGGCCGCTGTGCAGGAGCGCCGTACCCCGAGAGGCCGACCGT  
TCAATGTGGCTCTGAAACTGGGCCATCTCCAGAGTGGATGCTACAACATGATCTAATCCCCGGAGACTTGA  
GGGACCTCCGAGTAGAACCTGTTACAACACTAGTGTGCAACAGGGACTATTCAATTGATGAATGTAAGC  
TGGGTACTCCGGCAGATGCCAGCATCCGCTTGTGAAGGCCACCAAGATTGTGTGACGGGCAAAGCAA  
CTTCCAGTCCTACAGCTGTGAGGTGCAATTACACAGAGCCTCCAGACTCAGACCAGACCCCTGGTG  
GTAAATGGACATTTCTACATCGGCTTCCCTGTAGAGCTAACACAGTCTATTCAATTGGGCCATAAT  
ATTCTTAATGCAAATATGAATGAAGATGGCCCTCCATGTCGTGAATTCACCTCACCAGGCTGCCTAGA  
CCACATAATGAAATATAAAAAAAAGTGTGTCAAGGCCGAAGCCTGTGGGATCCGAACATCACTGCTTGT  
AGAAGAATGAGGAGACAGTAGAAGTGAACCTCACAAACCACCCCCTGGGAAACAGATACTGGCTCTTATC  
CAACACAGCACTATCATCGGGTTTCTCAGGTGTTGAGCCACACCAGAAGAAACAAACGCGAGCTCAGT  
GGTATTCCAGTGACTIONGGGATAGTGAAGGTGCTACGGTGAGCTGACTCCATATTTCTACTGTGGCA  
GCGACTGCATCCGACATAAGGAACAGTTGTGCTCTGCCACAAACAGGCGTCCCTTCCCTGGATAAAC  
AACAAAAGCAAGCCGGAGGCTGGCTGCCTCTCCTGCTGTCTGCTGGTGGCACATGGTGCTGGT  
GGCAGGGATCTATCTAATGTGGAGGCACGAAAGGATCAAGAAGACTTCCCTTCTACCACCAACTACTGC  
CCCCCATTAAGGTTCTGTGGTTACCCATCTGAAATATGTTCCATCACACAATTGTTACTCACTGAA  
TTTCTCAAAACCATTGAGGACTGAGGTGATCTGAAAGTGGCAGAAAAGAAAATAGCAGAGATGGG  
TCCAGTGCAGTGGCTTGCACACTAAAAGAAGGCAGCAGACAAAGTCGTTCTCTTCCAATGACGTCA  
ACAGTGTGTGCGATGGTACCTGTGGCAAGAGCGAGGGCAGTCCAGTGAGAACTCTCAAGACCTCTCCCC  
CTTGCCTTAAACCTTCTGAGTCTGATCTAAGAAGCCAGATTGATCTGACAAATACGTGGTGGTCTACTT  
TAGAGAGATTGATACAAAAGACGATTACAATGCTCTCAGTGTCTGCCCAAGTACCAACCTCATGAAGGATG  
CCACTGCTTCTGTGCAGAACCTCTCCATGTCAAGCAGCAGGTGTCAGCAGGAAAAAGATCACAAGCCTGC  
CACGATGGCTGCTGCTCCTGTAG

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FIGURE 12

MSLVLLSLAALCRSAVPREPTVQCGSETGPSPEWMLQHDLIPGDLRDLRVEPVTSVATGDYSILMNVS梧  
LRADASIRLLKATKICVTGKSNFQSYSCVRCNYTEAFQTQTRPSGGKWTFSYIGFPVELNTVYFIGAHNIP  
NANMNEGPMNSVNFTSPGCLDHIMKYKKKCVKAGSLWDPNITACKKNEETVEVNFTTTPLGNRYMALIQH  
STIIGFSQVFEPHQKKQTRASVVIPVTGDSEGATVQLTPYFPTCGSDCIRHKGTVVLCPQTGVPFPLDNMK  
SKPGGWLPLLLLSLLVATWVLVAGIYLMWRHERIKKTSFSTTLLPPIKVLVVYPSEICFHHTICYFTEFL  
QNHCRCSEVILEKWQKKKIAEMGPVQWLATQKKAADKVVFLSNDVNSVCDGTCGKSEGSPSENSQDLFPLA  
FNLFCSDLRSQIHLHKYVVVYFREIDTKDDYNALSVC PKYHLMKDATAFCAELLHV KQQVSAGKRSQACHD  
GCCSL

Signal sequence:	Amino acids 1-14
Transmembrane domain:	Amino acids 290-309
N-glycosylation sites:	Amino acids 67-70;103-106;156-159; 183-186;197-200;283-286
cAMP- and cGMP-dependent protein kinase phosphorylation sites:	Amino acids 228-231;319-322
N-myristoylation site:	Amino acids 116-121
Amidation site:	Amino acids 488-491

FIGURE 13

ACACTGGCCAAACAAAAACGAAAGCACTCCGTGCTGGAAGTAGGAGGAGTCAGGACTCCCAGGACAGAG  
AGTGCACAAACTACCCAGCACAGCCCCCTCGCCCCCTCTGGAGGCTGAAGAGGGATTCCAGCCCTGCCA  
CCCACAGACACGGGCTGACTGGGGTGTCTGCCCTTGGGGGGGGCAGCACAGGGCTCAGGCCTGGG  
GCCACCTGGCACCTAGAACAGAT**G**CCTGTGCCCTGGTCTGGCTGTCCCTGGCACTGGCGAAGCCCAGTGG  
TCCTTCTCTGGAGAGGCTGTGGGCCTCAGGACGCTACCCACTGCTCTCCGGGCCTCTCTGCCGCCTC  
TGGGACAGTACATACTCGCCTGCTGGGACATCGTGCCTGCTCCGGGCCCGTGTGGCGCTACGCA  
CCTGCAGACAGAGCTGGTGCTGAGGTGCCAGAAGGAGACCGACTGTGACCTCTGTCTGCGTGTGGCTGTCC  
ACTTGGCGTGCATGGCACTGGGAAGAGCCTGAAGATGAGGAAAAGTTGGAGGAGCAGCTGACTCAGGG  
GTGGAGGAGCCTAGGAATGCCCTCTCCAGGCCAAGTCGTGCTCTCCAGGCCAACCTACTGCCCG  
CTGCGCCTGCTGGAGGTGCAAGTGCTGCTGCCCTGTGCAGTTGGTCACTGTGTTGGCTGTGGTATAT  
GACTGCTCGAGGCTGCCCTAGGGAGGTACGAATCTGGCCTATACTCAGGCCAGGTACGAGAAGGA  
ACTCAACCACACACAGCAGCTGCCCTGCCCTGGCTAACGTGTCAGCAGATGGTACAACGTGCATC  
TGGTCTGAATGTCTCTGAGGAGCAGCAGTCCGGCTCTCCCTGACTGGAATCAGGTCCAGGGCCCCCA  
AAACCCCGGTTGCACAAAAACCTGACTGGACCCAGATCATTACCTGAACCACACAGACCTGGTCCCTG  
CCTCTGTATTCAAGGTGCGCCTCTGGAACCTGACTCCGTTAGGACGAACATCTGCCCTCAGGGAGGACC  
CCCGCGCACACCAGAACCTCTGGCAAGCCGCCACTGCGACTGCTGACCTGCAAGCTGGCTGCTGGAC  
GCACCGTGCTCGCTGCCCGAGAAGCGGCACTGTGCTGGGGCTCCGGGTGGGACCCCTGCCAGCCACT  
GGTCCCACCGCTTCTGGAGAACGTCAGTGTGACAAGGTTCTCGAGTTCCATTGCTGAAAGGCCACC  
CTAACCTCTGTGTTCAAGGTGAACAGCTCGGAGAAGCTGCACTGCAAGGAGTGTGCTGTGGCTGACTCCCTG  
GGGCTCTCAAAGACGATGTGCTACTGTTGGAGACACGAGGCCAGGACAACAGATCCCTGTGCCTT  
GGAACCCAGTGGCTGTACTTCACTACCCAGCAAAGCCTCCACGAGGGCAGCTCGCCTGGAGAGTACTTAC  
TACAAGACCTGCAGTCAGGCCAGTGTCTGCAGCTATGGGACGATGACTTGGAGCGCTATGGCCTGCC  
ATGGACAAATACATCCACAAGCGTGGGCCCTCGTGTGGCTGGCCTGCCTACTCTTGCCGCTGCGCTTCC  
CCTCATCCTCTCTCAAAGGATCACCGCAAAGGGTGGCTGAGGCTCTTGAAACAGGACGTCCGCTCGG  
GGCGGCCGCCAGGGGCCGCGCGCTCTGCTCCTACTCAGCGATGACTCGGGTTCGAGCGCTGGT  
GGGCCCTGGCTGGCCAGCTGCGCTGCCGTGGCGTAGACCTGTGGAGGCCGTGTAAGT  
GAGCGCGCAGGGGCCGTGGCTGGTTACCGCGACGCGGCCAGACCTGCAGGAGGGCGCGTGGTGG  
TCTGCTCTCTCTCCGGTGCCTGGCGCTGTGCAAGCGAGTGGCTACAGGATGGGTGTGGGGCCCGGG  
GCGCACGGCCCGCACGACGCCCTCCGCCTCGCTCAGCTGCCTGCTGCCGACTCTTGCAAGGGGCC  
GCCCGGCAGCTACGTGGGGCCTGCTCGACAGGCTGCTCCACCCGGACGCCGTACCCGCCCTTCCGCA  
CCGTGCCCTCTCACACTGCCCTCCAACTGCCAGACTTCTGGGCCCTGCAAGCAGCCTCGGCC  
CGTCCGGCGCTCAAGAGAGAGCGGAGCAAGTGTCCCCGGCCCTTCAGCCAGCCCTGGATAGCTACTT  
CCATCCCCCGGGACTCCCGCGCCGGACGCCGGTGGGACCGGGGGGGACCTGGGGCGGGGACGGGA  
CTTAAATAAAGGCAGACGCTGTTTCTAAAAAAAA

FIGURE 14

MPVPWFLLSLALGRSPVVLSLERLVEPQDATHCSPGLSCRILWDS DILCLPGDIVPAPGPVLAPTHLQTELV  
LRCQKETDCDLCLRVAVHLAVHGHWEPEDEEKFGGAADSGVEEPRNASLQAQVVLSFQAYPTARCVLLEV  
QVPAALVQFGQS VGSVYDCFEAALGSEVRIWSYTQPRYEKELNHTQQLPALPWLNV SADGDNVHLV LNV S  
EEQHFGLSLYWNQVQGPKPRWHKNLTGPQIITLNHTDLVPCLCIQVWPLEPD SVRTN ICPFREDPRAHQ N  
LWQAARLRLITLQSWL LDAPCSL PAAEALCWRAPGGDPCQPLVPPLSWENVTVDK VLE FPLLKGHPNLCV Q  
VNSSEKLQLQ ECLWADSLGPLKDDVLLTRGPQDNRS LCALEPSGCTSLPSKA STRAARLGEYLLQDIQS  
GQCLQLWDDDLGALWACPMDKYIHKRWALVWLACLLFAAALS LILLKKDHAKGWLRLLKQDVRSGAAARG  
RAALLYSADD SGFERLV GALASALCQLPLRVA D LWSRREL SAQGPVAWF HAQRQTLQEGGVV VLLFSP  
GAVALCSEWLQDG VSGPGAHGPHDAFRASLSCVLPDFLQGRAPGSYVGACFDRLLHPDAVPA LFRTV PVF T  
LPSQLPDFLGALQQPRA PRSGRLQ ERAEQVSRALQP ALDSYFHPPGT PAPGRGV GPGAGPGAGDGT

signal sequence: Amino acids 1-20

transmembrane domain: Amino acids 453-473

N-glycosylation sites: Amino acids 118-121; 186-189; 198-201;  
211-214; 238-241; 248-251; 334-337;  
357-360; 391-394

Glycosaminoglycan attachment site: Amino acids 583-586

cAMP- and cGMP-dependent protein kinase phosphorylation site:  
Amino acids 552-555

N-myristoylation sites: Amino acids 107-112; 152-157; 319-324;  
438-443; 516-521; 612-617; 692-697;  
696-701; 700-705

FIGURE 15

CGAGGGCTCTGCTGGTACTGTGTTGCTGCTGCACAGCAAGGCCCTGCCACCCACCTCAGGCCATGCAG  
 CCATGTTCCGGGAGCCTAATTGCACAGAAGCCCATGGGGAGCTCCAGACTGGCAGCCCTGCTCCTGCCTC  
 TCCTCCTCATAGTCATCGACCTCTGACTCTGCTGGGATTGGCTTCGCCACCTGCCACTGGAACACC  
 CGCTGTCTCTGGCCTCCCACGGATGACAGTTCACTGGAAGTTCTGCCTATATCCCTGCCGCACCTG  
 GTGGGCCCTCTCTCCACAAAGCCTGGTGTGCGAGTCTGGCACTGTCCTCCGCTGTTGTGCCAGCATCTG  
 TGTCAGGTGGCTCAGGTTCAACGGGCCTCTCACCTGGTGCAGAAATCCAAAAGTCTTCCACA  
 TTCAAGTTCTATAGGAGACACAAGATGCCAGCACCTGCTCAGAGGAAGCTGTCGCCCTCGTGCACCTG  
 TGAGAAGAGCCATCACATTCCATCCCCTCCCCAGACATCTCCCACAAGGGACTTCGCTCTAAAGGACCC  
 AACCTCGGATCCAGAGACATGGAAAGTCTCCCAGATTGGACTCACAAAGGCATGGAGGACCCGAGTTC  
 TCCCTTGATTGCTGCCCTGAGGCCGGCTATTGGTGCACCATATCTCAGGCCCTGAGGTCAAGCGTGGC  
 TCTTGTCACCAGTGGCACTGGAGTGTGAAGAGCTGAGCAGTCCCTATGATGTCAGAAAATTGTGTCTG  
 GGGGCCACACTGTAGAGCTGCCATTGAATTCCCTCTGCCCTGTCTGTCATAGAGGCATCCTACCTGCAA  
 GAGGACACTGTGAGGCCAAAAAATGTCCTCCAGAGCTGCCAGAACCTATGGCTGGACTTGGAA  
 GTCAGTGCACCTCACTGACTACAGCCAGCACACTCAGATGGTCACTGCCCTGACACTCCGTCGCCACTGA  
 AGCTGGAAGCTGCCCTTGCCAGAGGCACGACTGGCATAACCTTGCAAAGACCTCCGAATGCCACGGCT  
 CGAGAGTCAGATGGTGTATGTTGGAGAAGGTGGACCTGCACCCCCAGCTGCTGTTCAAGTTCTTT  
 TGGAAACAGCAGCCATGTTGAATGCCCTCACCAGACTGGTCTCTCACATCCTGAAATGTAAGCATGGATA  
 CCCAAGCCCAGCAGCTGATTCTTCACTTCTCCTCAAGAATGCATGCCACCTCAGTGCTGCCCTGGAGCCTC  
 CCAGGCTTGGGCAGGACACTTGGTGCCTCCGGTACACTGTCAGCCAGGCCGGCTCAAGCCCAGT  
 GTCACTAGACCTCATCATTCCCTCTGAGGCCAGGGTGTGTCCTGGTGTGGCGGTCAAGATGTCAGTCCAGT  
 TTGCCCTGGAAGCACCTTGTGTCCAGATGTCCTTACAGACACCTGGGCTCTGATCCTGGCACTGCTG  
 GCCCTCCTCACCCACTGGTGTGTCCTGCCCTCACCTGCCGGCCACAGTCAGGCCGGGCCCCAGC  
 GCGGCCAGTGTCTCCTGCACGCCGGACTCGGAGGCCAGCGGCCCTGGTGGAGGCCAGTGGCGCTGGCTGAAC  
 TGCTACGGCAGCGCTGGCGGCCGGCGACGTGATCGTGACCTGTGGAGGGAGGCACGTGGCGCGCT  
 'GGGCCGCTGCCGTGGCTCTGGCGCGCGACGCGCGTAGCGCGGGAGCAGGGCACTGTGCTGCTGCTG  
 GGAGCGCGCGCGACCTCGCCCGGTACCGGCCGCTGCGCACCTGCCGCTGCTGCCCTGCTGCCCTGCTCCAC  
 GCTGCCCGGCCCGCTGCTGCTGCTACTTCAGTCGCTCTGCCCAAGGGCACTGCCCTGCTGCCCTGCTGCC  
 GCTGCCGCGCCCTGCCGCTACCGGCCGCTGCGCACCTGCCGCTGCTGCCGCTGCTGCCCTGCTGCC  
 CTTGCGAGAGGCCACCAAGCTGGGCCCTGGGCCGGCAGCGCAGGCCAGAGGCCCTAGAGCTGTGC  
 AGCCGGCTGAACGAGAGGCCCGACTTGCAGACCTAGGTTGAGCAGAGCTCCACCGCAGTCCGGGTGTCT

FIGURE 16

MGSSRLAALLPLLLIVIDLSDSAGIGFRHLPHWNTRCPLASHTDDSFTGSSAYIPCRTWWALFSTKPWCVRVWHCSRCLCQHLLSGGSGLQRGLFLLLQKSKSSTFKFYRRHKMPAPAQRKLLPRRHLSEKSHHISIIPS  
PDISHKGLRSKRTQPSDPETWESLPRLDQRSRHHGPEFSFDLLPEARAIRVTISSGPEVSVRLCHQWALECE  
ELSSPYDVQKIVSGGHTVELPYEFLLPCLCIEASYLQEDTVRRKKCPFQSWEAYGSDFWKSVHFTDYSQH  
TQMVMALTLCPLKLEAACQRHDWHTLCKDLPNATARESDGWYVLEKVDLHPQLCFKFSFGNSSHVECPH  
QTGSLT SWNVSMDTQAQQLILHFSSRMHATFSAAWSLPGILGQDTLVPPVYTVSQARGSSPVSLDLIIPFLR  
PGCCVLVWRSDVQFAWKHLLCPDVSYRHLLGLLALLALLTLLGVVLALTCCRQPQSGPGPARPVLLHAAD  
SEAQRRLVGALAEELLRAALGGGRDVIVDLWEGRHVARVGPLPWLAARTRVAREQGTVLLWSGADLRPVS  
GPD PRAAPLLALLHAAPRPLL LAYFSRLCAKGDIPPLRALPRYRLLRDLPRLIRALDARPFAEATSWGR  
LGARQRRQSRLECSRLEREAA RLADLG

Signal peptide: Amino acids 1-23  
  
Transmembrane domain: Amino acids 455-472  
  
N-glycosylation sites: Amino acids 318-322; 347-351; 364-368  
  
Glycosaminoglycan attachment site: Amino acids 482-486  
  
cAMP- and cGMP-dependent protein kinase phosphorylation sites:  
Amino acids 104-108; 645-649  
  
Tyrosine kinase phosphorylation site: Amino acids 322-329  
  
N-myristoylation sites: Amino acids 90-96; 358-364; 470-476  
  
Eukaryotic cobalamin-binding proteins: Amino acids 453-462

**FIGURE 17**

FIGURE 18

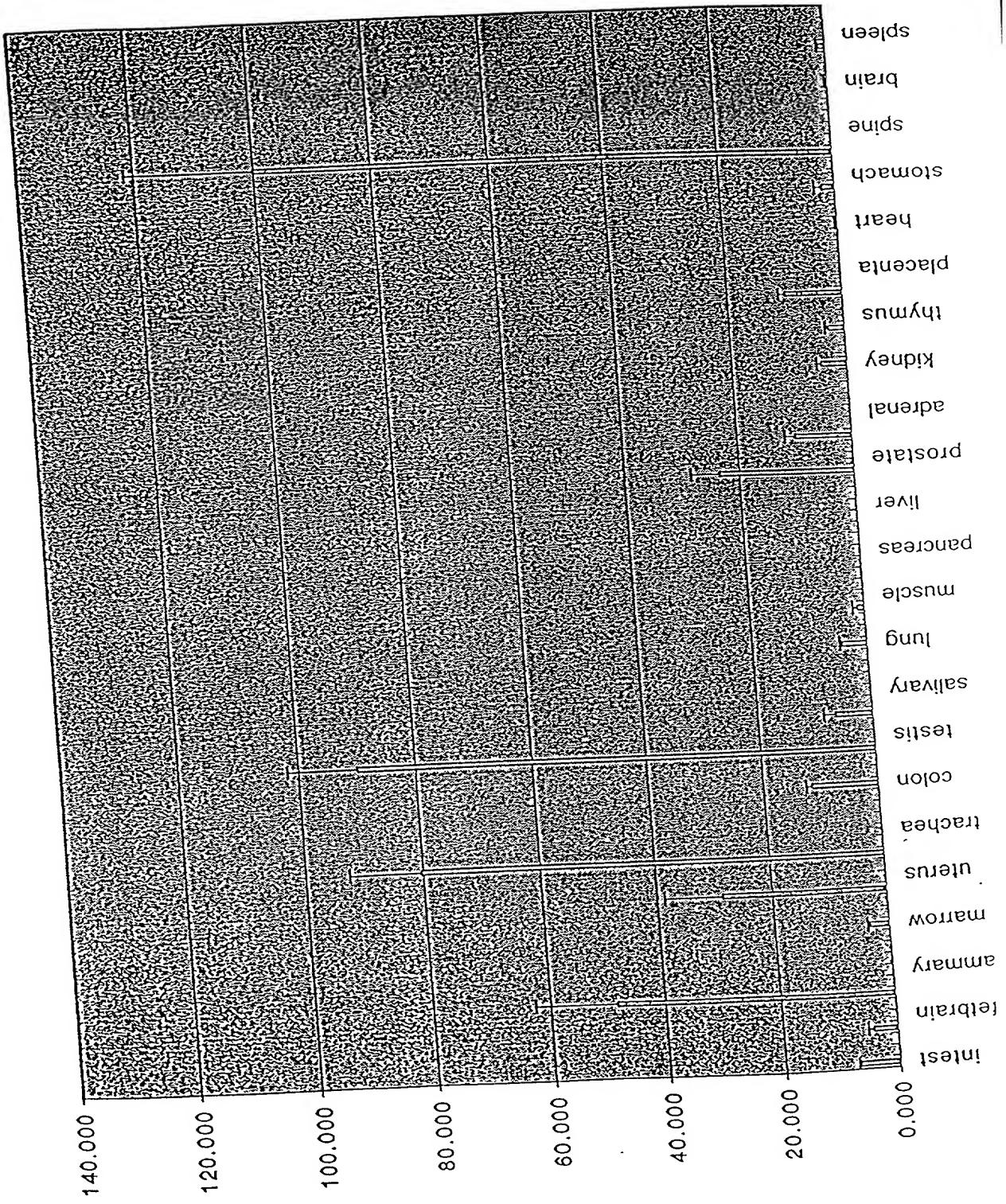
MPRASASGVPALFVSGEQGVGPASRNGLYNITFKYDNCTTYLNPGKHVIADAQNITISQYACHDQVAVT  
ILWSPGALGIEFLKGFRVILEELKSEGRQCQQLILKDPKQLNSSFRTGMESQFLNMKFETDYFVKVVPF  
PSIKNESNYHPFFFTRACDLLLQPDNLACKPFWKPRNLNISQHGSMDMQVSFDHAPHGSDMQVSFDHAPHN  
FGFRFFYLHYKLKHEGPFRKTCKQEQTTEMTSCLLQNVS PGDYIIELVDDTNTRKVMHYALKPVHSPWA  
GPIRAVAITVPLVVISAFATLFTVMCRKKQQENIYSHLDEESSSTYTAALPRERLRPRPKVFLCYSSKD  
GQNHMNVVQCFAYFLQDFCGCEVALDLWEDFSLCREGQREWWVIQKIHESQFIIVVCSKGKMFYFVDKKNYKH  
KGGRGSGKGELFLVAWSAIAEKLROAKQSSSAALSKFIAVYFDYSCEDVPGILDLSKYRLMDNLPQLC  
SHLHSRDHGLQEPGQHTRQGSRRNYFRSKSGRSLYVAICNMHQFIDEEPDWFEKQFVPFHPPPLRYREPVL  
EKFDGSLVLNDVMCKPGPESDFCLKVEAVLGATGPADSQHESQHGGLDQDGGEARPA LDGSAALQPLLHTV  
KAGSPSDMPRDSGIYDSSVPSSELSLPLMEGLSTDQTESSLTESVSSSGLGEEEPALPSKLLSSGSCK  
ADLGCRSYTDELHAVAPL

Transmembrane domain:	Amino acids 283-307
N-glycosylation sites:	Amino acids 31-34;38-41;56-59; 113-116;147-150;182-185;266-269
Glycosaminoglycan attachment sites:	Amino acids 433-436;689-692
cAMP- and cGMP-dependent protein kinase phosphorylation:	Amino acids 232-235
Tyrosine kinase phosphorylation sites:	Amino acids 312-319;416-424
N-myristoylation site:	Amino acids 19-24;375-380;428-433; 429-434;432-437;517-522;574-579; 652-657;707-712

FIGURE 19

h-IL17 1 - - - - - - - - - - - - - - M T P G K T S L V S L [L] L L S L E A I V K A G I T I P R  
 h-IL17B 1 - - - - - M D W P H N L L F L L T I S I F L G L G Q P R S P K S K R K G O G R P G P L A P G P  
 h-IL17C 1 M T L L P G L L F L T W L H T C L A H H D P S L R G H P K S H G T P H C Y S A E E L P L I G O A P P H  
 h-IL17D 1 - - - - - - - - M L V A G F L L A L P P S W A A G A P R A G R R P A R P R G C A D R P  
 h-IL17E 1 - - - - - - - - M R E R P R L G E D S S L I S L F L O V V A F L A M V M G T H T Y S H  
 h-IL17F 1 - - - - - - - - M T V K T L H G P A M V K Y L L S I L G L A F L S E A A R K I P K V G  
  
 h-IL17 30 N P G C P N S E D K N F P R T V M V N [L] N I H N R N T N T N P K - - - - - - - - R S S D  
 h-IL17B 43 H Q V P L D L V S R M K P Y A R M E E Y E R N I E E M V A O L R N S S E L A O R K C E V N L O L W M  
 h-IL17C 51 L L A R G A K W G Q A L P V A L V S S L E A K S H R G R H E R P S A T T O C P V L R A P E E V L E A D  
 h-IL17D 36 E E L L E O L Y G R L A A G V I S A F H H T L Q L G P R E Q A R N A S C P A G G R P A D R R F R P P  
 h-IL17E 36 W P S C C P S K G Q D T S E E L L R W S T V P V P P L E P A R P P N R H P E S C R A S - - - E D G P  
 h-IL17F 38 H T F F Q K P E S C P P V P G G S M K L D I G I I N E N O R V S - - - - - - - - M S R N  
  
 h-IL17 66 Y Y N R S T [S] P W N L H R N E D P E R Y P S V I W E A K [K] R H L G C I N A D - G N V D Y H M N S V P  
 h-IL17B 93 S N K R S L S P W G Y S I N H D P S R I P Y P O V L P E A R C L C L G C V N P F T M O E D R S M V S V P  
 h-IL17C 101 T H O R S I S P W R Y R V D T D E O R Y P O K L A F A E C L C R G C I D A R T G R E T A A L N S V R  
 h-IL17D 86 T N L R S V I S P W R Y E L D R O D L N R L P Q D L Y H A R C L C L P H C V S L O T G S H M D P R G N S E  
 h-IL17E 82 L N S R A I S P W R Y E L D R O D L N R L P Q D L Y H A R C L C L P H C V S L O T G S H M D P R G N S E  
 h-IL17F 74 I E S R S T [S] P W N Y T V T W D P N R Y P S E V V O A Q C R N L G C I N A O - G K E D I S M N S V P  
  
 h-IL17 115 I O [Q] E I L V L R R E - - P P H C P N S F P L E K I L V S V G C T C V T P I V H H V A  
 h-IL17B 143 V F S O V P V R R R L C P P P - - - P R T G P C R O R A V M E T I A V G C T C I F - -  
 h-IL17C 151 L L [Q] S L L V L R R R P C S P D G S G L P T P G A F A F H T E F I H V P V G C T C V L P R S V -  
 h-IL17D 136 V Y M P T V V L R R T P A C A G - - - G R S V Y T E A Y V T I P V G C T C V P E P E K D A D  
 h-IL17E 132 L L Y H N Q T V F Y R R P C H G E K - - G T H K G Y C L E R R L Y R V S L A C Y C V R P R V M G -  
 h-IL17F 123 I O [Q] E T L V V R R K - - - - - H Q G C S V S F O L E K V L V T V G C T C V T P V I H H V O  
  
 h-IL17D 179 S I N S S I D K Q G A K L L L G P N D A P A G P X

FIGURE 20



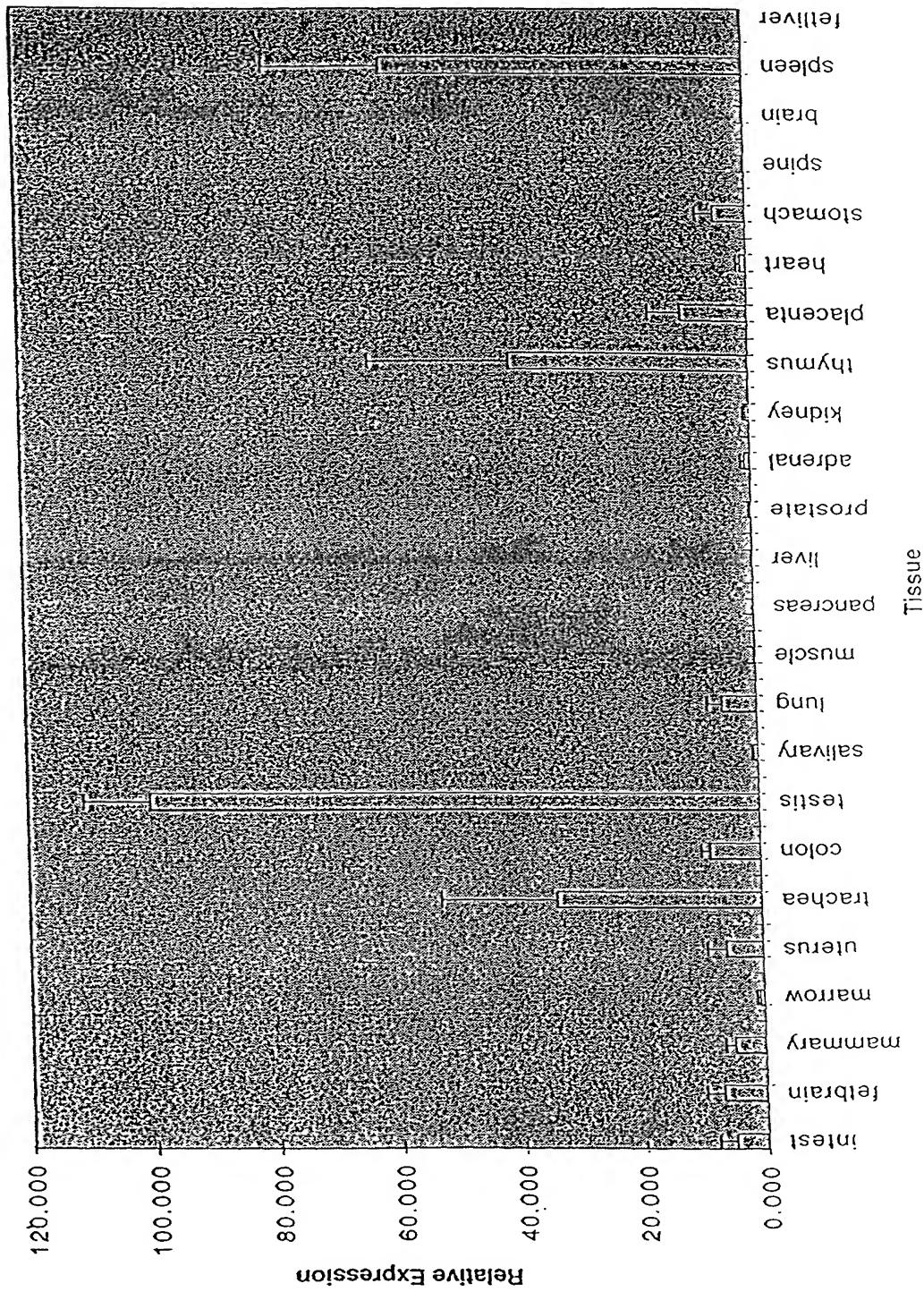
**FIGURE 21****IL17C Distribution**

FIGURE 22

## IL17D Distribution

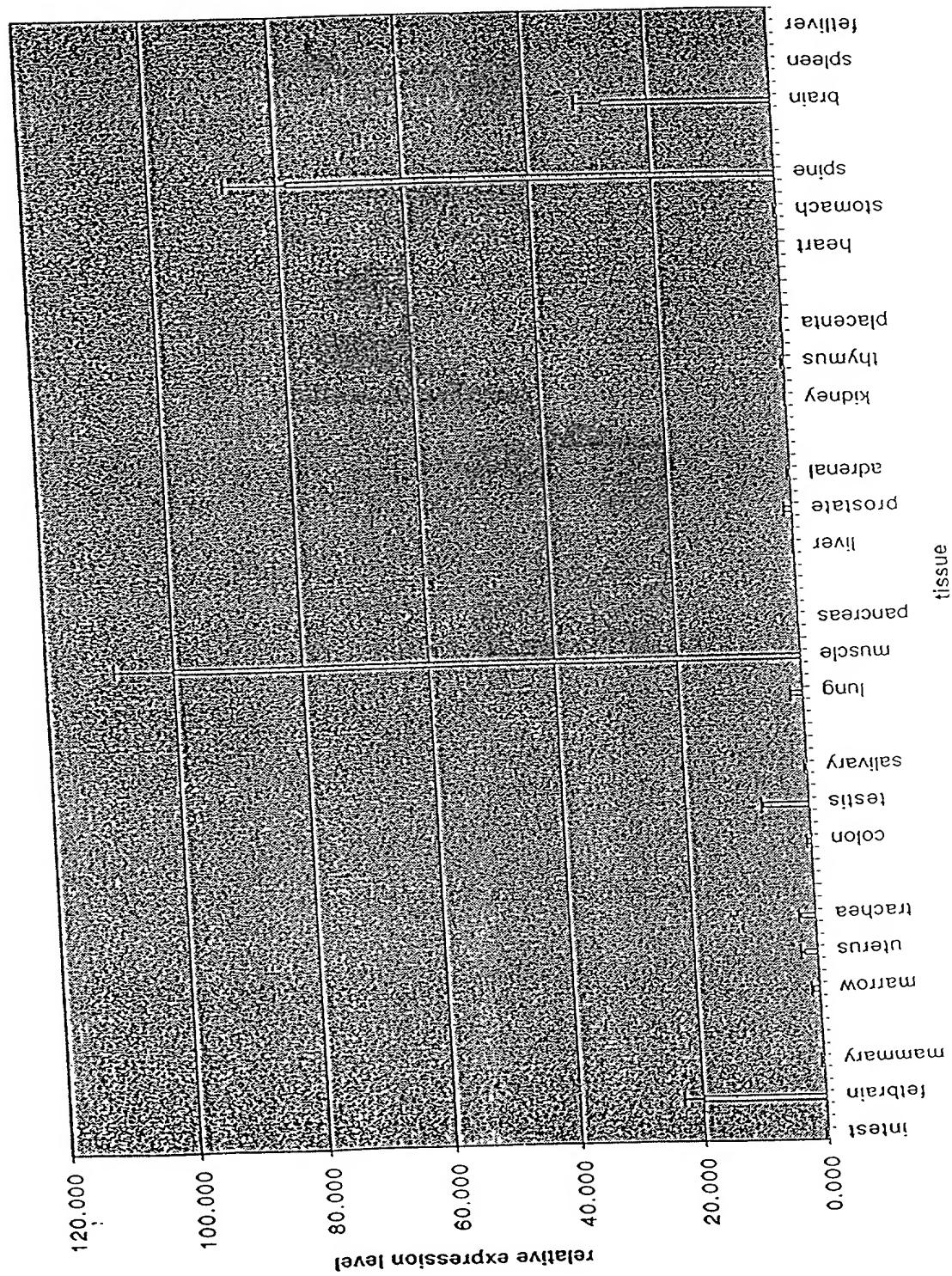


FIGURE 23

Brain	uterus
heart	fetal brain
kidney	fetal liver
liver	spinal chord
lung	placenta
colon	adrenal
marrow	pancreas
intestine	salivary
spleen	trachea
stomach	mammary
thymus	
prostate	
muscle	
testis	

FIGURE 24

## IL17 F Distribution

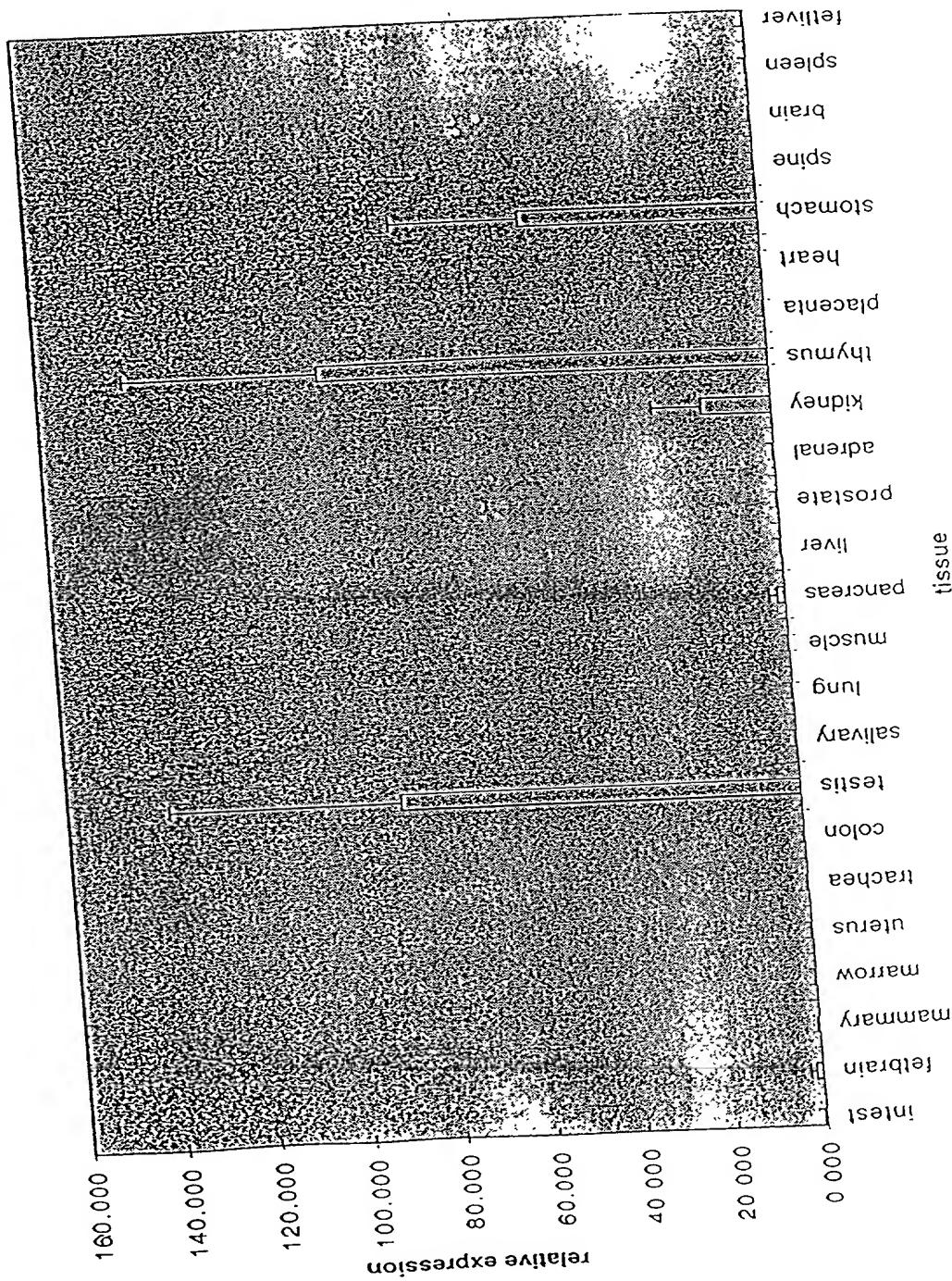
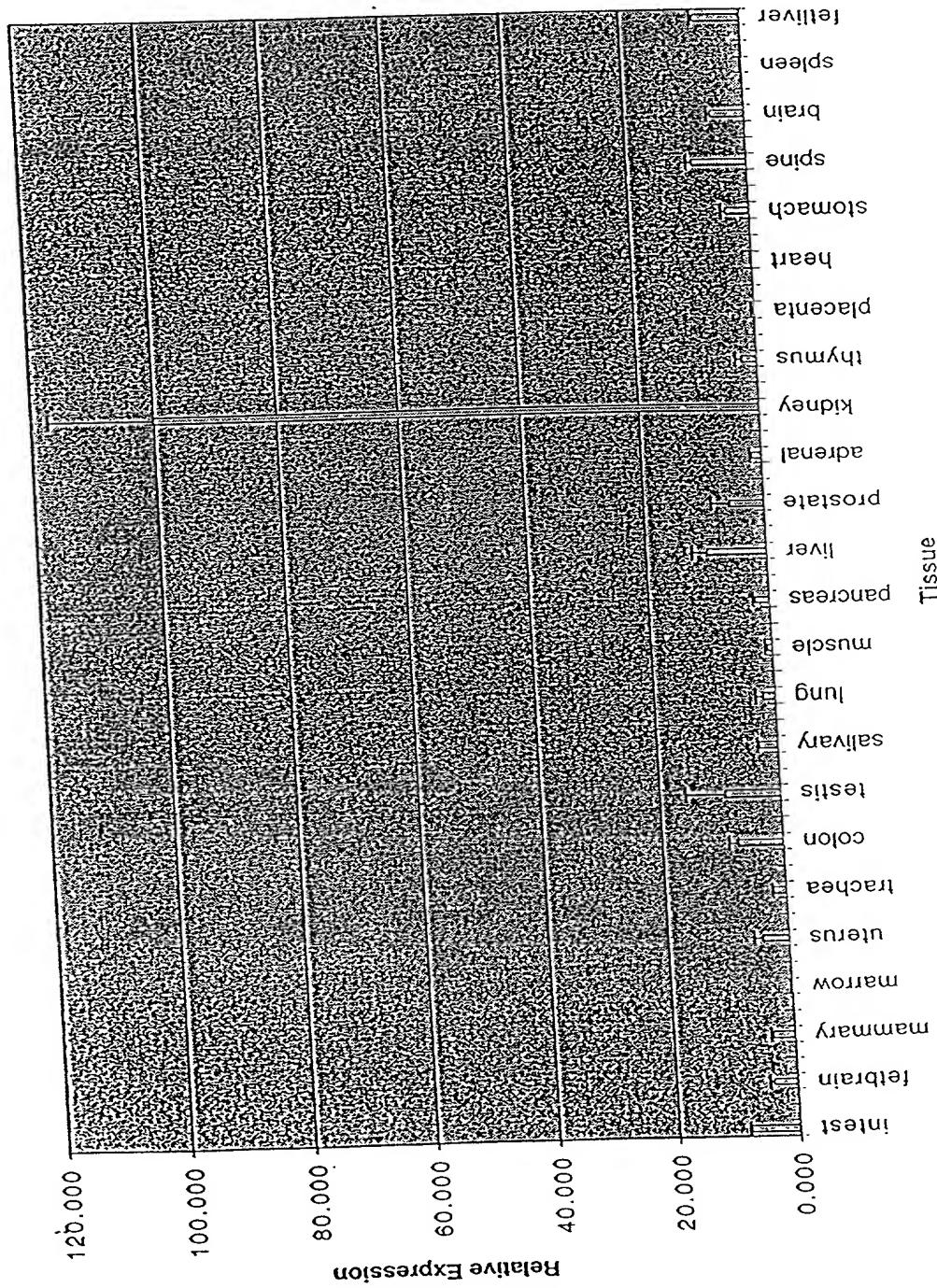


FIGURE 25

## IL17Rhom-1 Distribution



**FIGURE 26**

## RH2 distribution

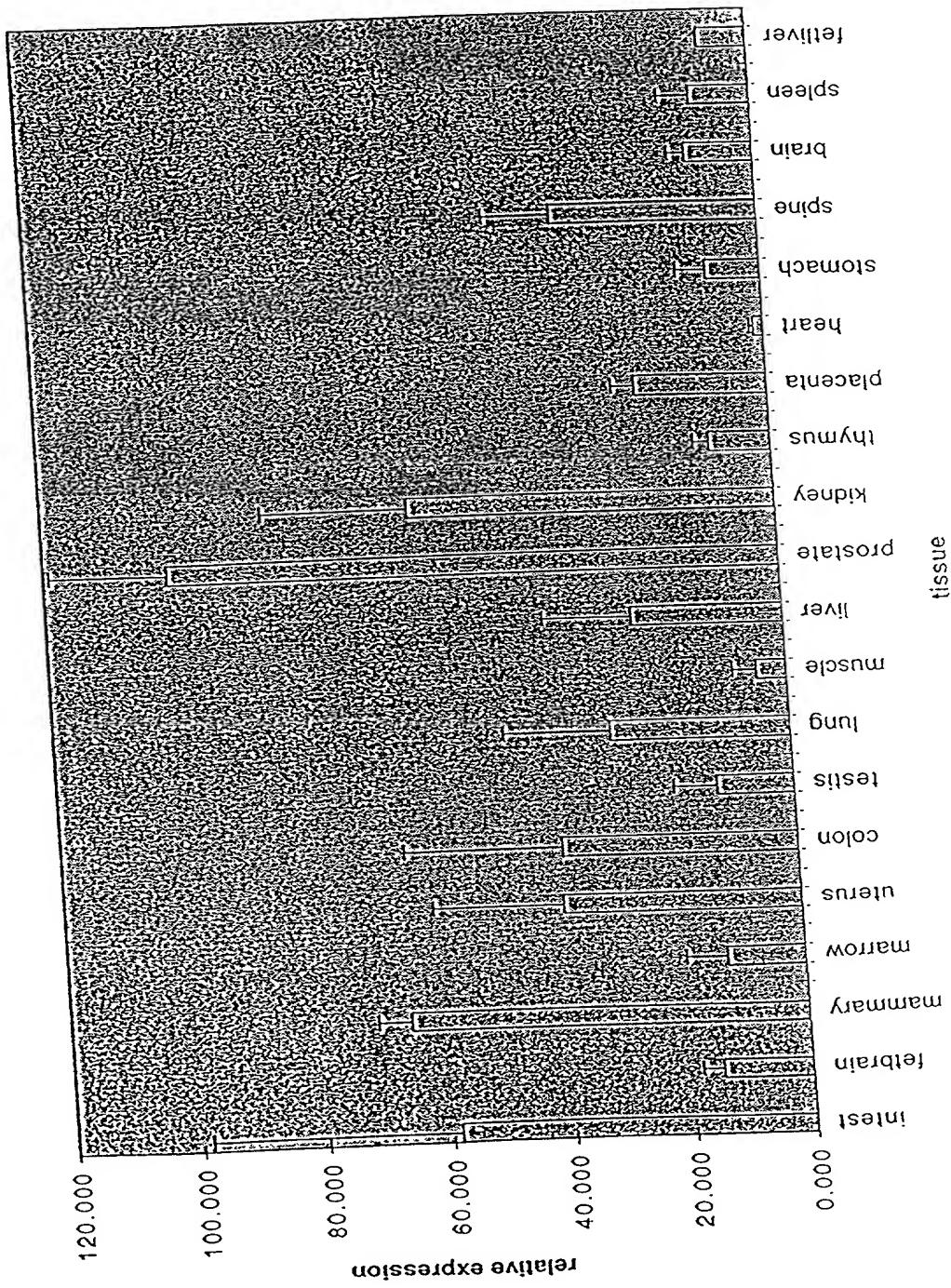
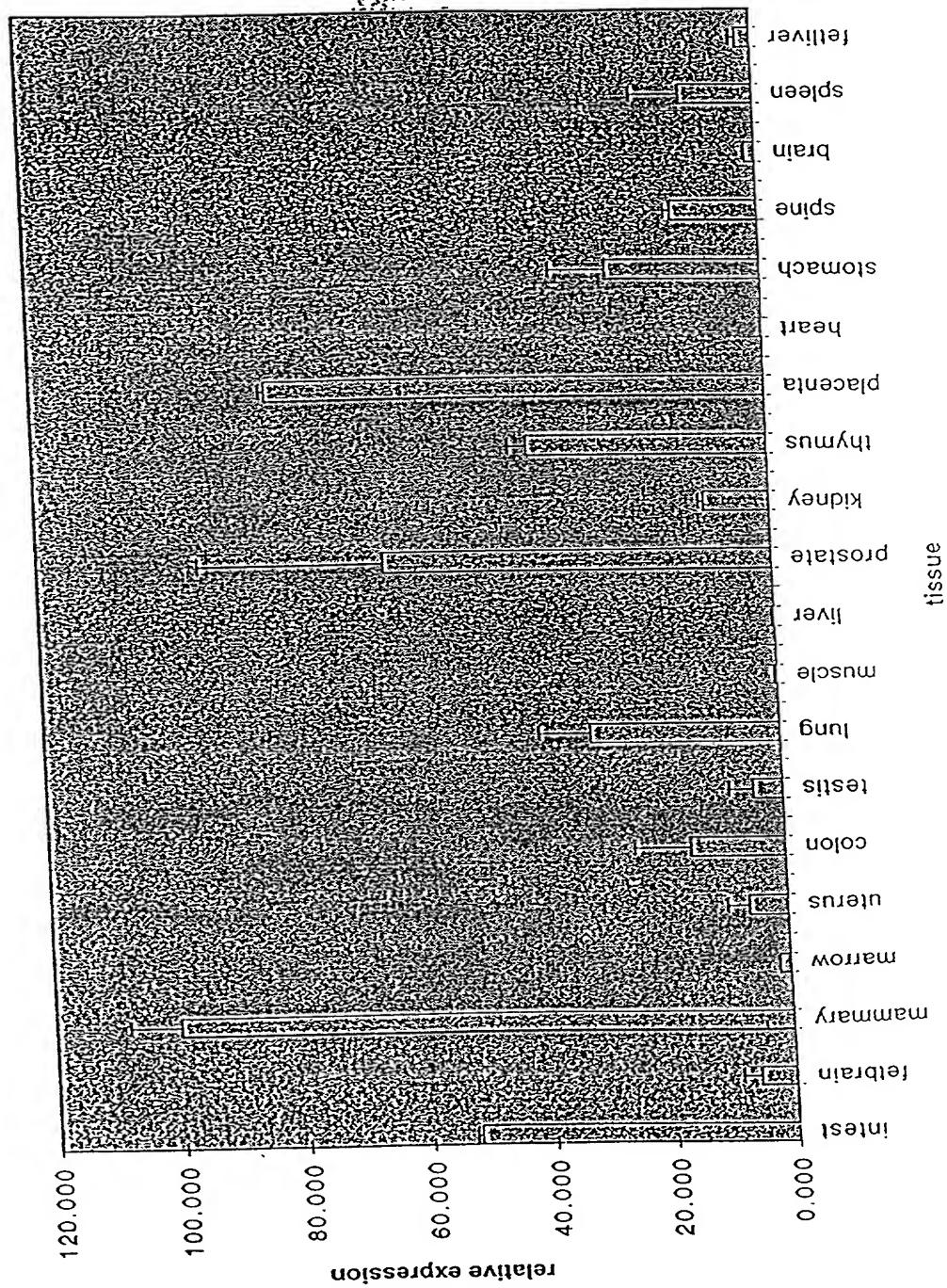
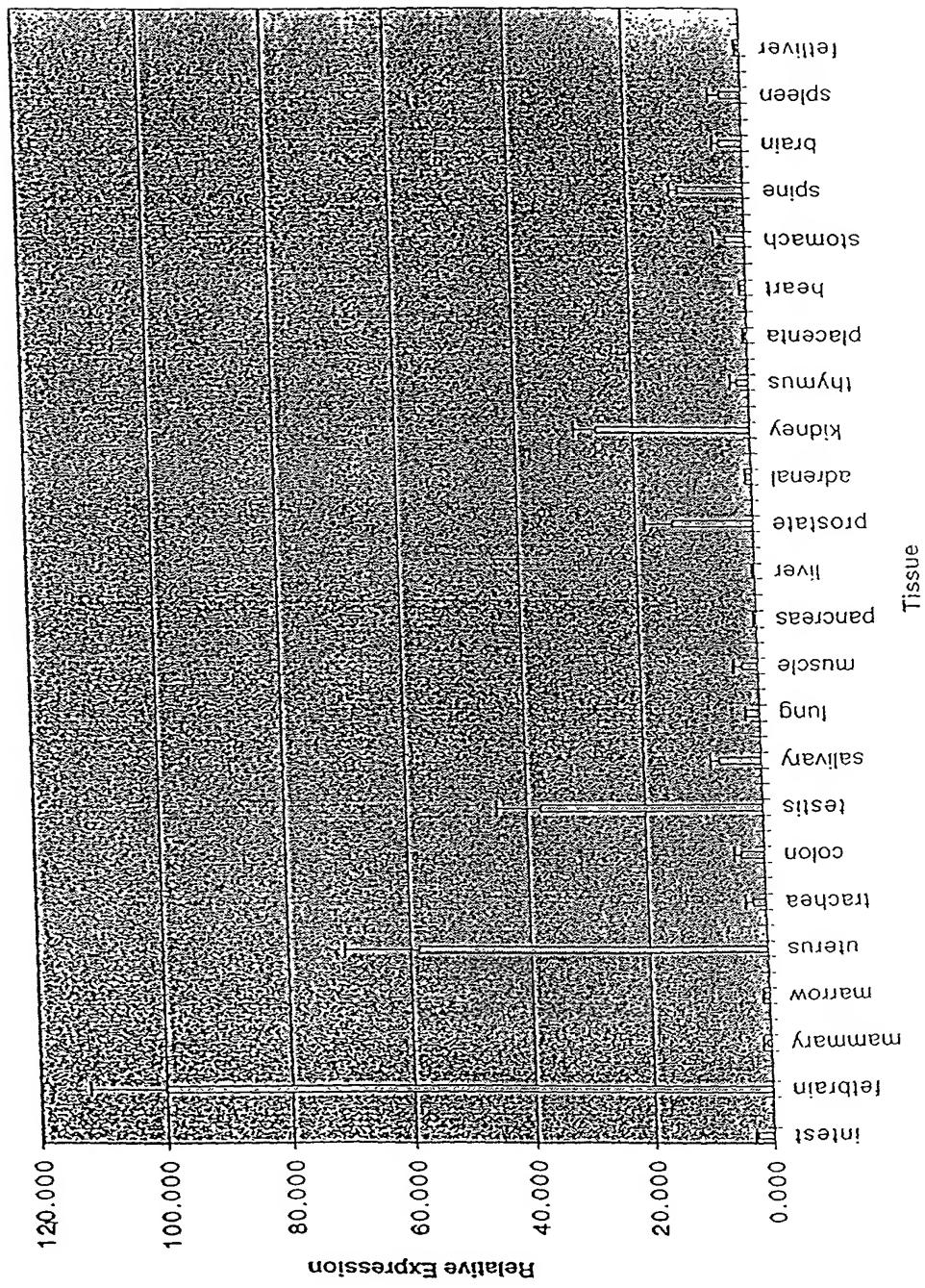


FIGURE 27

## RH3 distribution



**FIGURE 28****IL17 RH4 distribution**

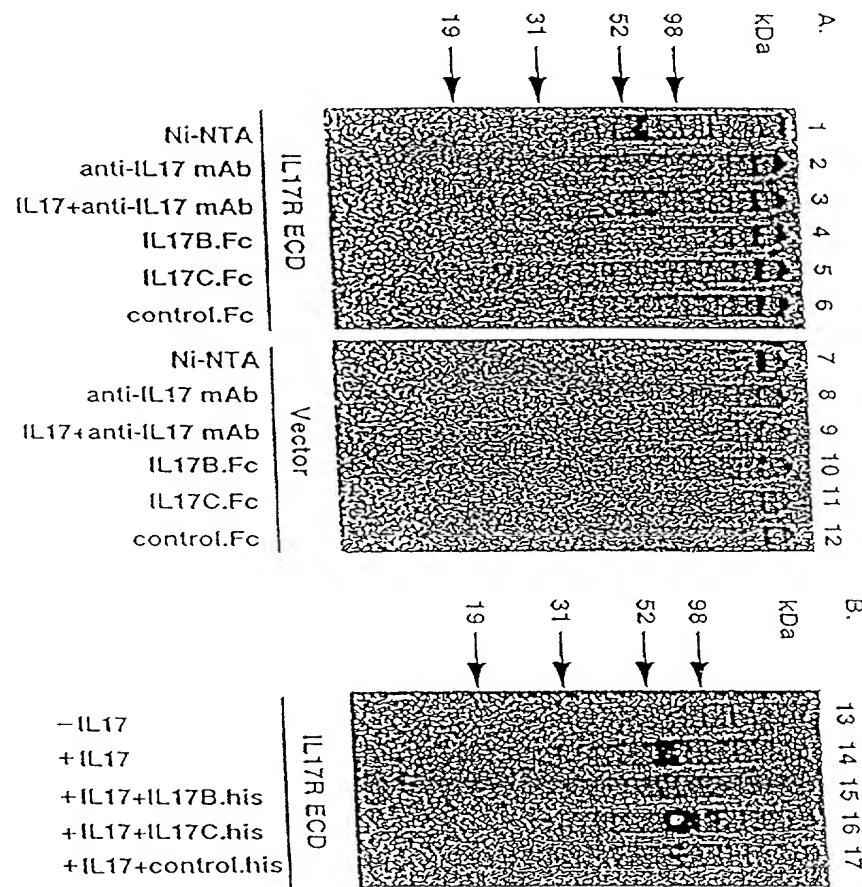
**FIGURE 29**

FIGURE 30

h-IL17	1 - - - - - M T P G K T S L V S L L L L S L E A I V K A G I T I P A - - - - -
h-IL17B	1 - - - - - M D W P H N L L F L L T I S I F L G L G O P R S P K S K R K G Q G R P G P - - - - -
h-IL17C	1 - - - - - M T L L P G L L F L T W L H T C L A H H O P S L R G H P H S H G T P H C Y S A E E L P L G
h-IL17E	1 M R E R P R L G E D S S L I S L F L Q V V A F L A M V M G T H T Y S H W P S C C P - - - - -
h-IL17	30 - - - - - N P G C P N S E D K N F P R T V M V N L N I H N R N T T N P K R - - -
h-IL17B	39 A P G P H O V P L D L V S R M K P Y A R M E E Y E R N T I E E M V A O L R N S S E L A Q R K C E V N
h-IL17C	47 A P P H L L A R G A K W G Q A L P V A L V S S L E A A S H R G R H E R P S A T T T Q C P V L R P E
h-IL17E	42 - - - - - S K G Q D T S E E L L R W S T T V P V P P L E P A R P N R H P E S C R A S E
h-IL17	63 - S S D Y Y N R S T I S P W N L H R N E D P E R Y P S V I W E A K R H L G C I N A D G - - N V D
h-IL17B	89 Q L W M S N K R S L I S P W G Y S I N H D P S R I P V D I P E A R C L C L G C V N P F T M Q E D R S
h-IL17C	97 L E A D T H Q R S T I S P W R Y R V D T O E D R Y P Q K L A F A E C L C R G C I D A R T G - R E T A
h-IL17E	79 - D G P L N S R A I S P W R Y E L D R D L N R L P Q D L Y H A R C L C P H C V S L Q T G S H M D P
h-IL17	110 M N S V P I Q O E I L V L R R E - - - - - P P H C P N S F R L E K I I L V S V G C T C V T P
h-IL17B	139 V S V P V F S Q V P V R R R L C P P - - - - - P R T G P C R Q R A V M E T I A V G C T C I F
h-IL17C	146 L N S V R L L Q S L L V L R R R P C S R D G S G L P T P G A F A E H T E F I H V P V G C T C V L P
h-IL17E	128 G N S E L L Y H N Q T V F Y R R P C H G E K - - - G T H K G Y C L E R A L Y R V S L A C V C V R P
h-IL17	151 V H H V A
h-IL17C	196 S V - - -
h-IL17E	175 V M G - -

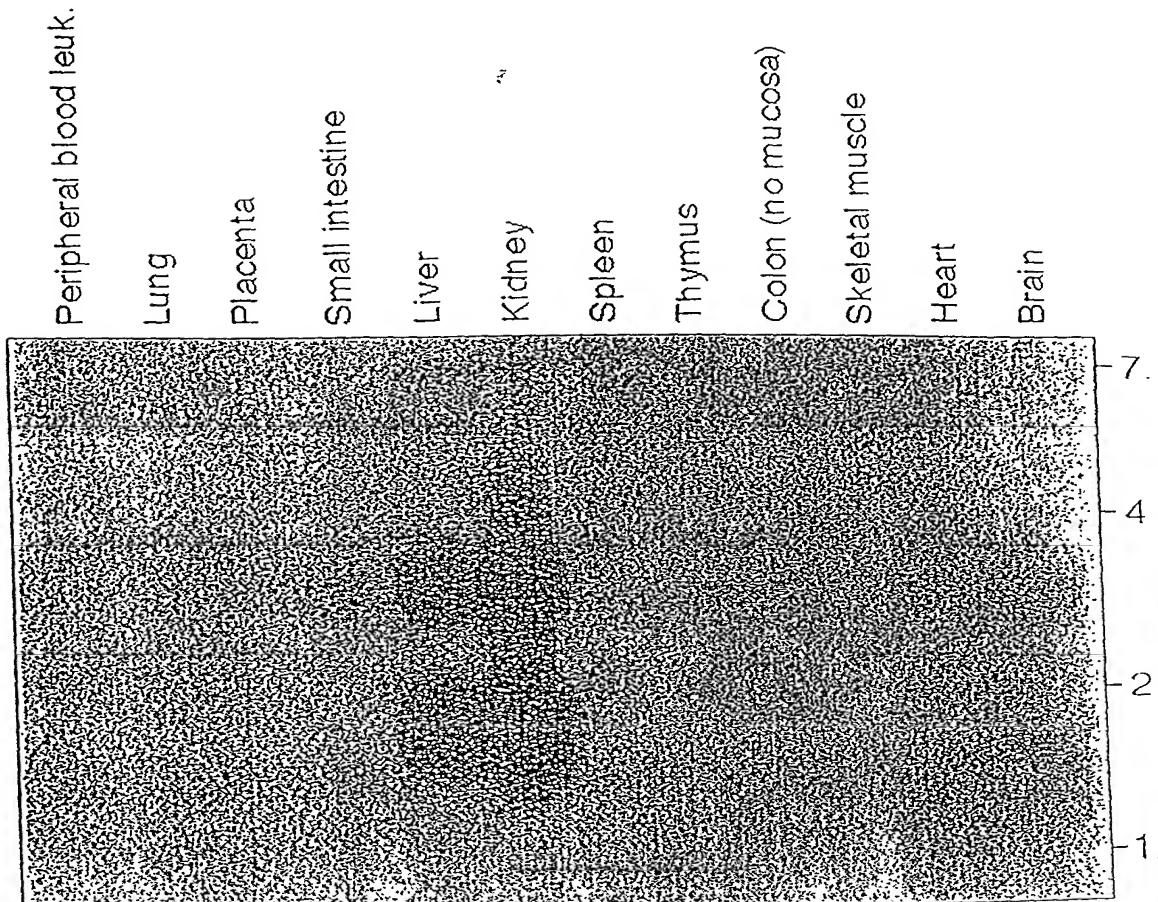
**FIGURE 31A**

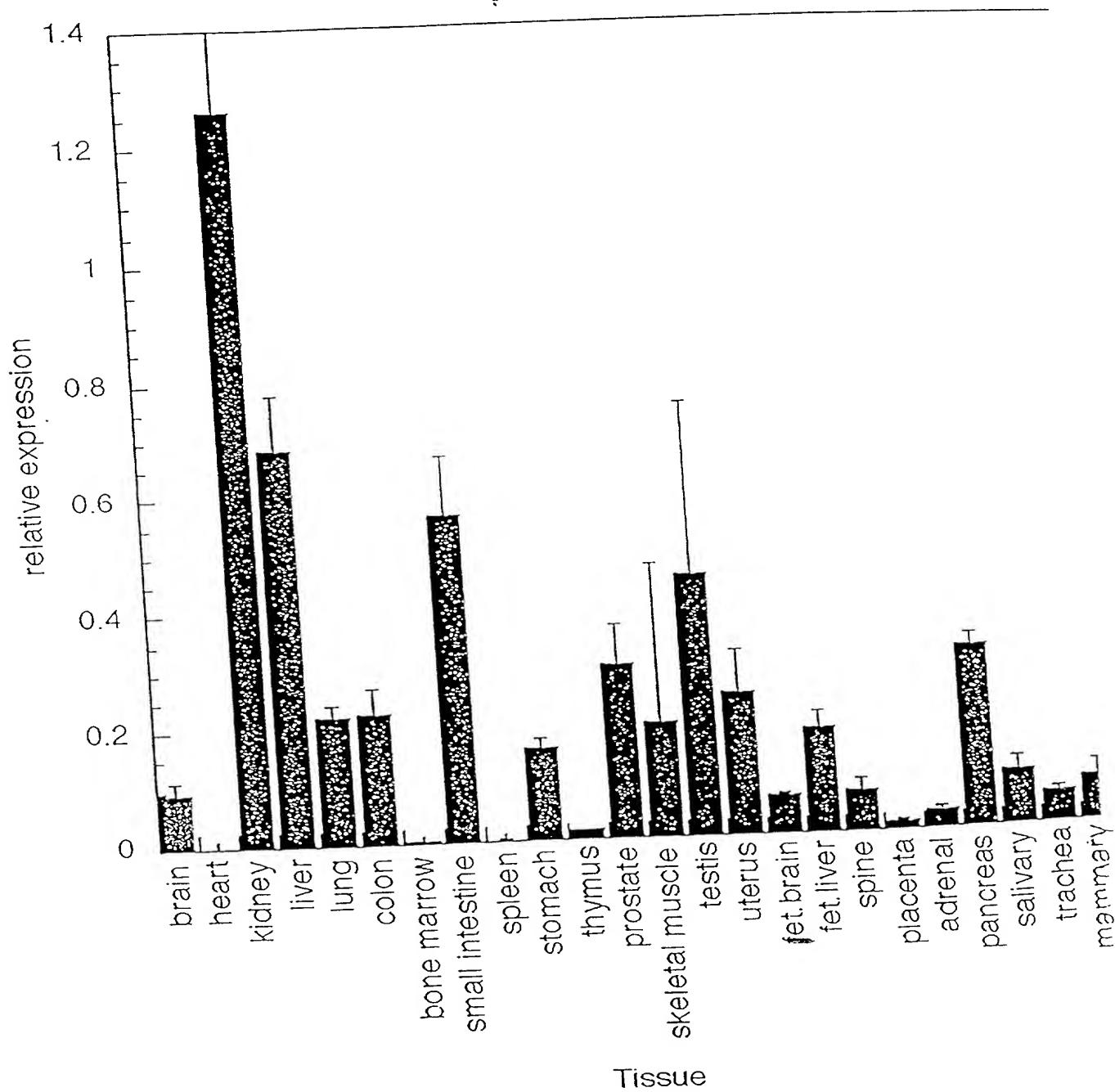
FIGURE 31B

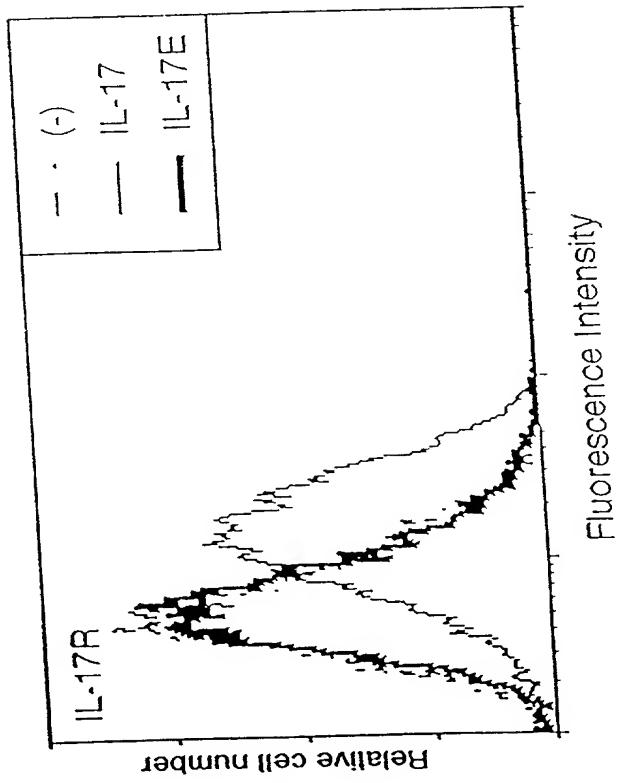
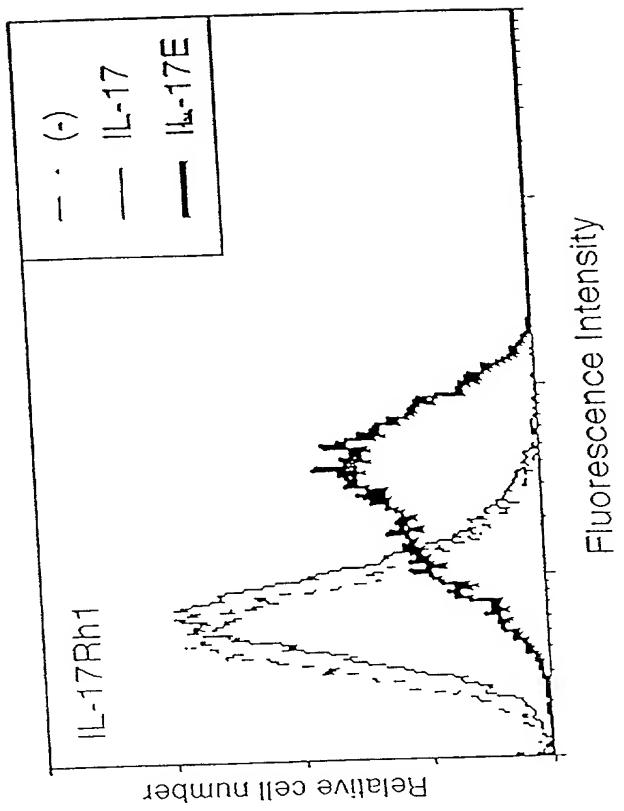
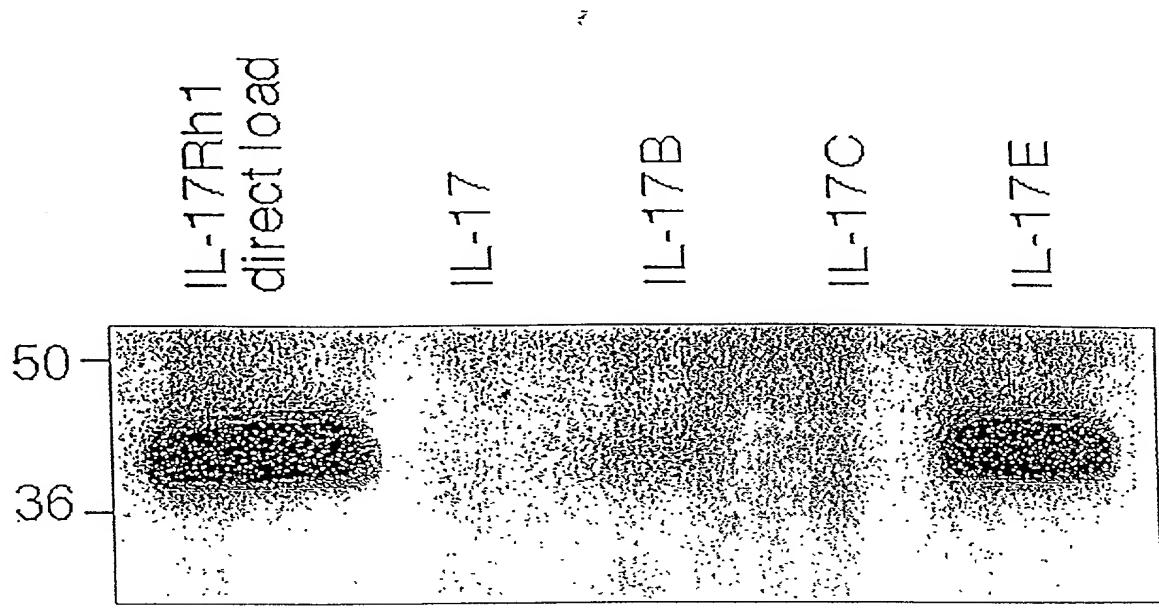
FIGURE 32A

FIGURE 32B



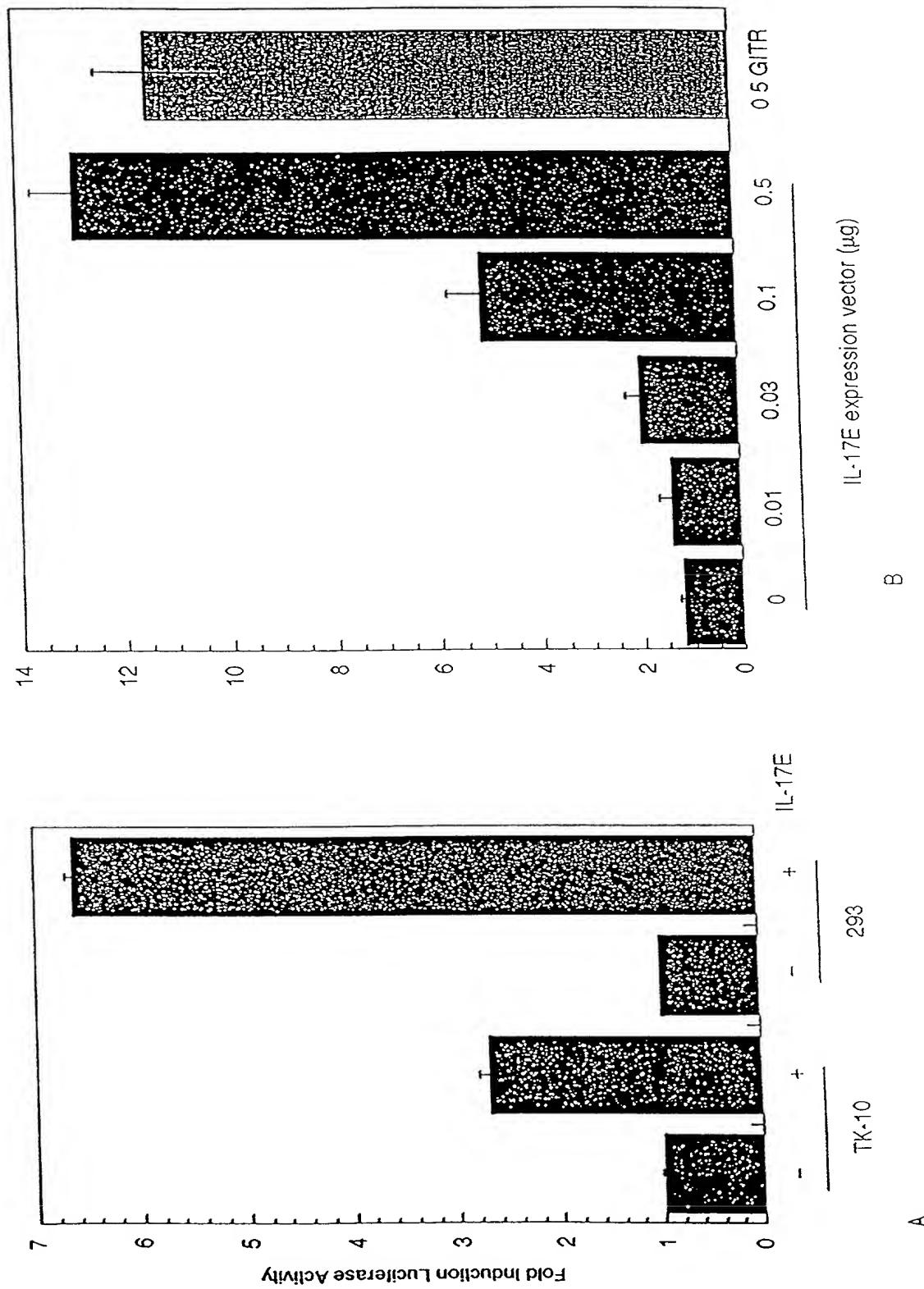
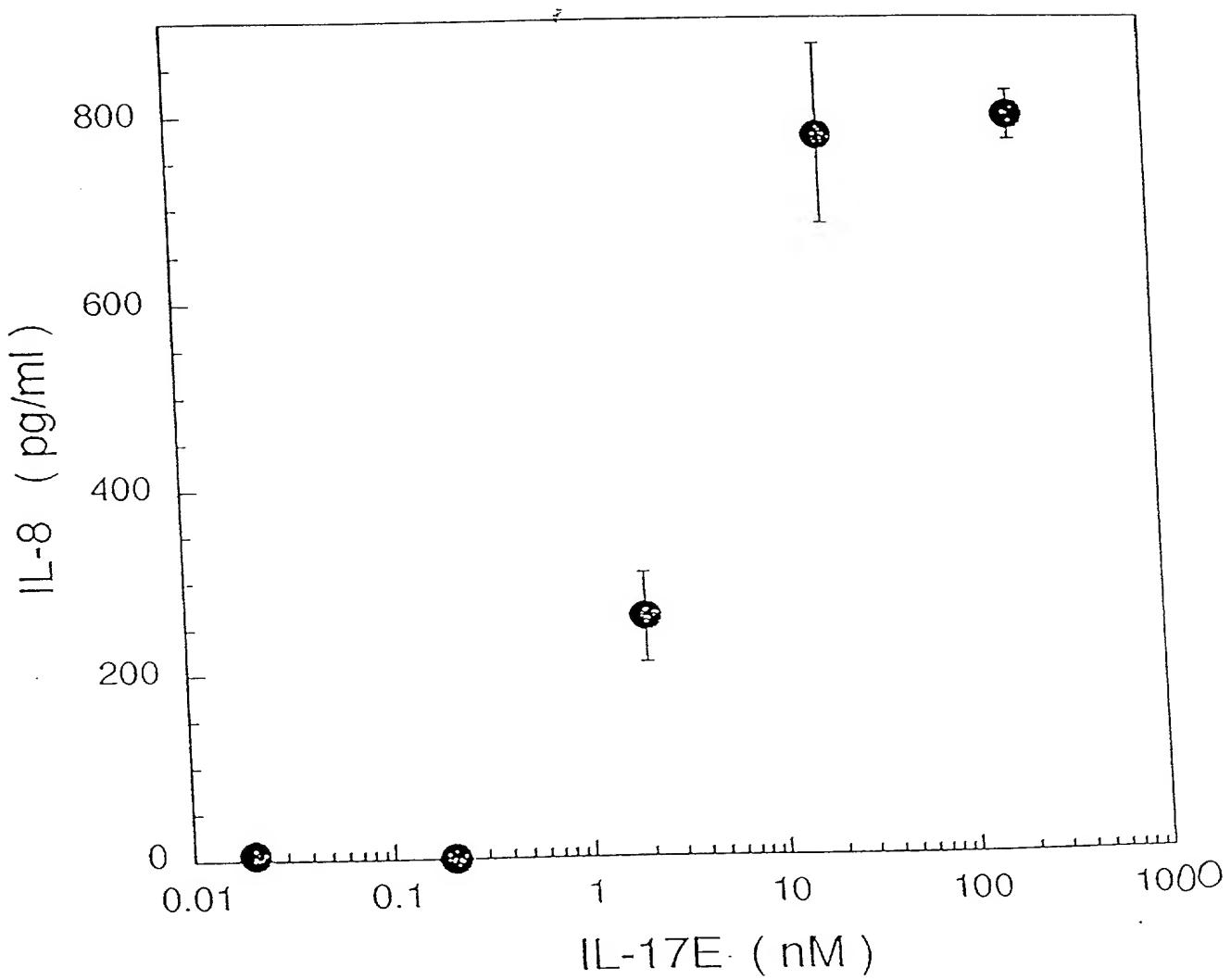
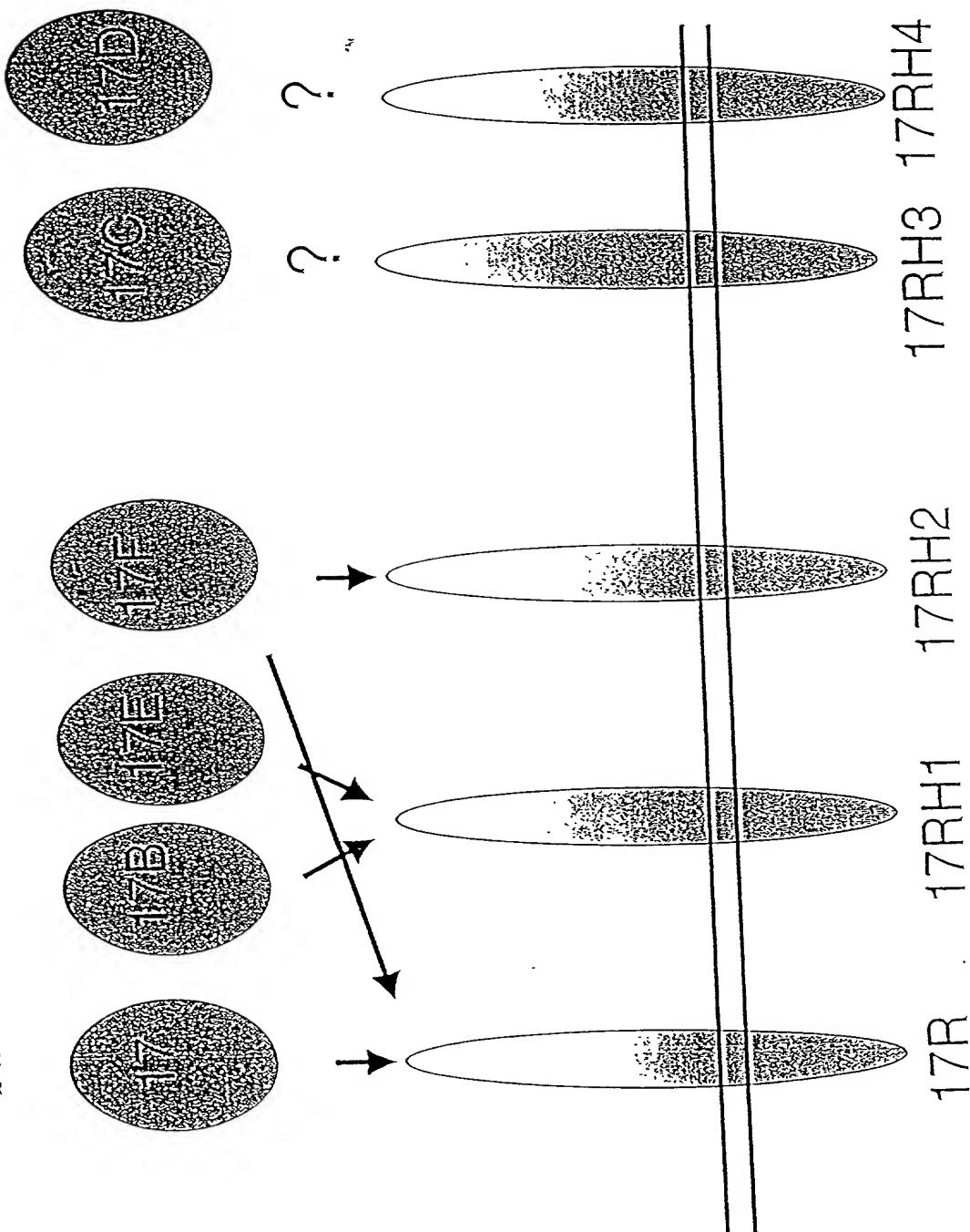
**FIGURE 33**

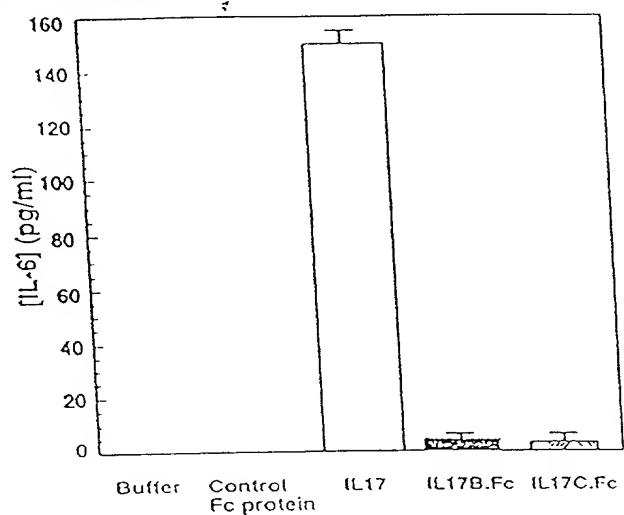
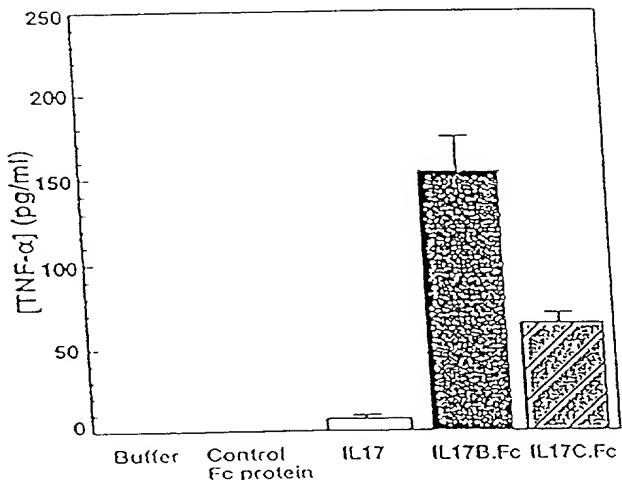
FIGURE 34

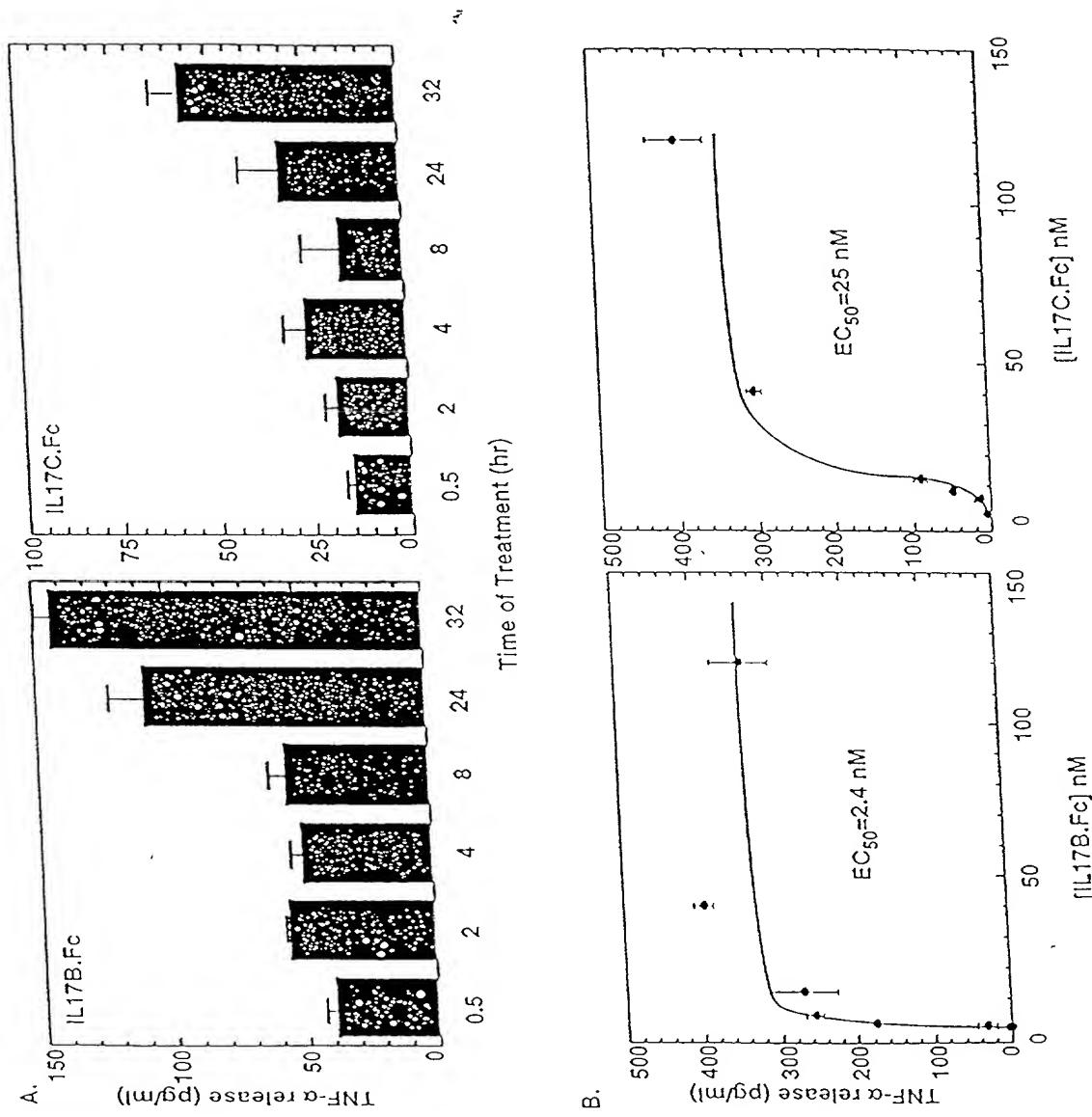
IL-17 family of cytokines has complex pattern  
of overlapping receptor-ligand specificities

37/70

FIGURE 35



**FIGURE 36****A. HFF cells****B. THP1 cells**

**FIGURE 37**

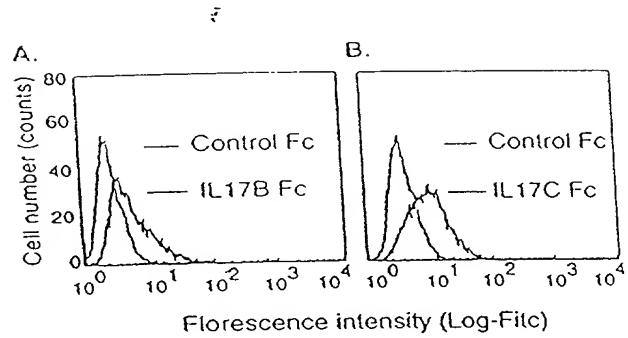
**FIGURE 38**

FIGURE 39

## IL-17 induces breakdown and inhibits synthesis of cartilage matrix

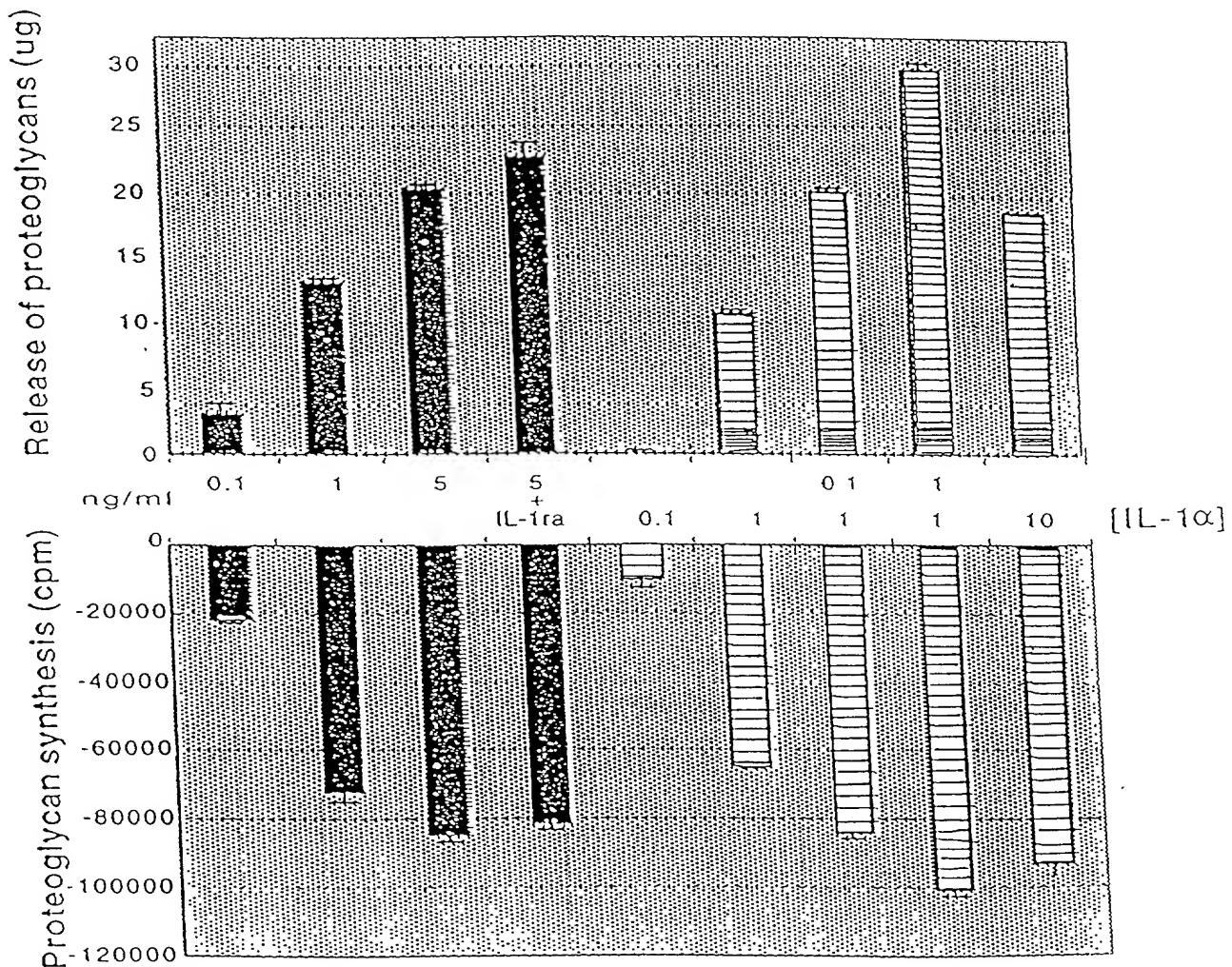


FIGURE 40

IL 17 increases basal and IL-1 $\alpha$ -induced nitric oxide release

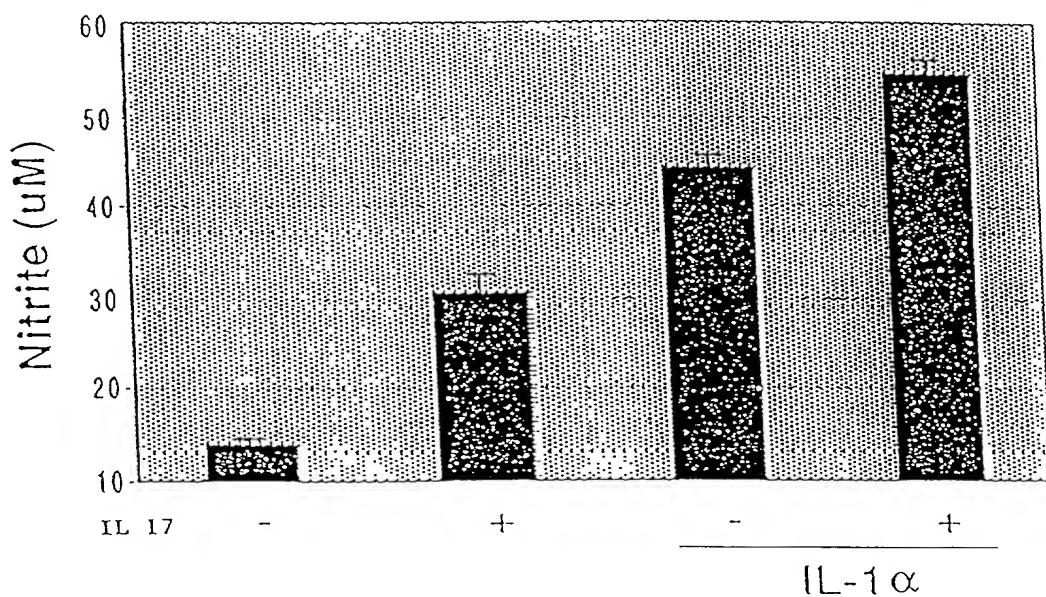
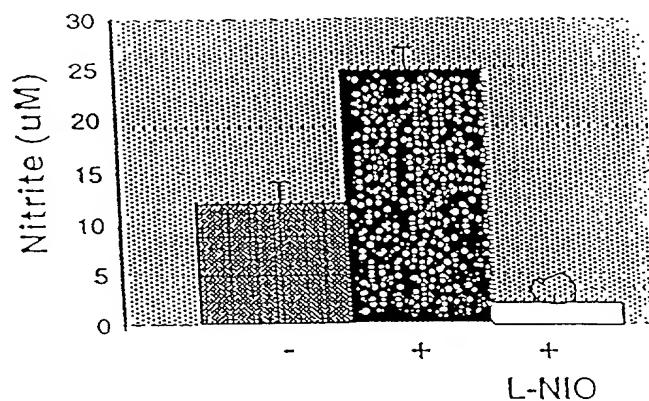


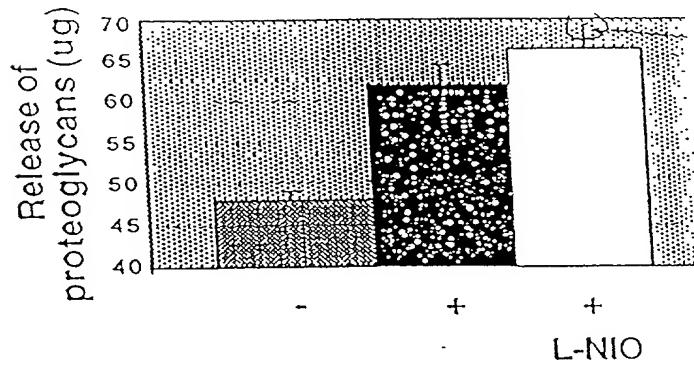
FIGURE 41

## Inhibition of nitric oxide release does not block the detrimental effects of IL-17 on matrix breakdown or synthesis

A.



B.



C.

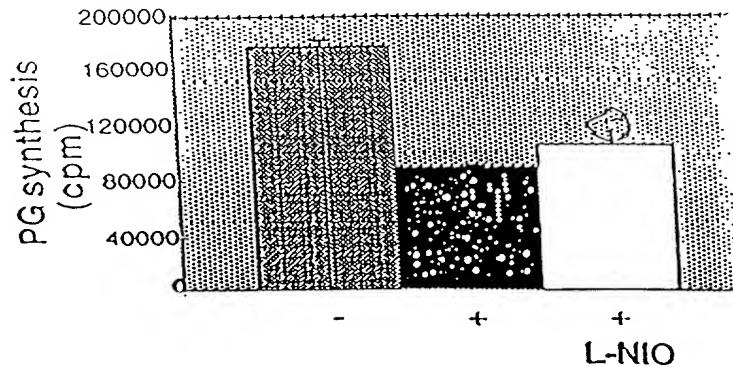


FIGURE 42

INHIBITION of NO release enhances  
 $\text{IL-}\alpha$ -induced matrix breakdown  
 but not matrix synthesis

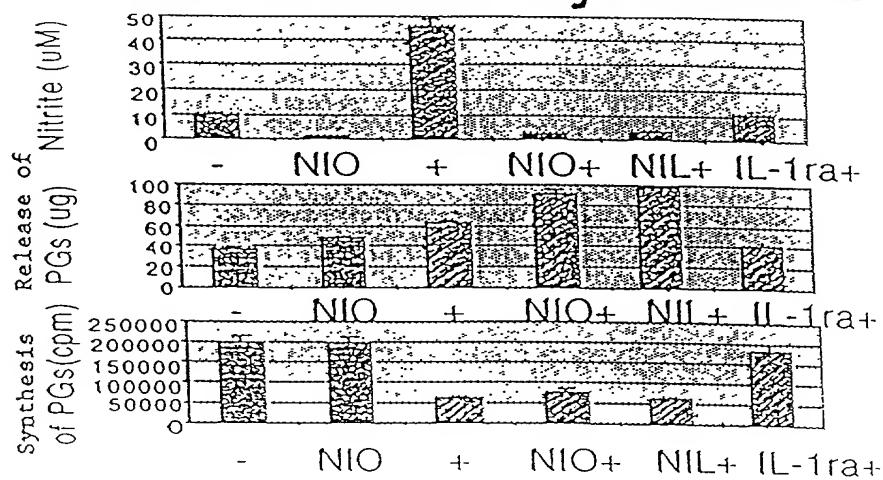
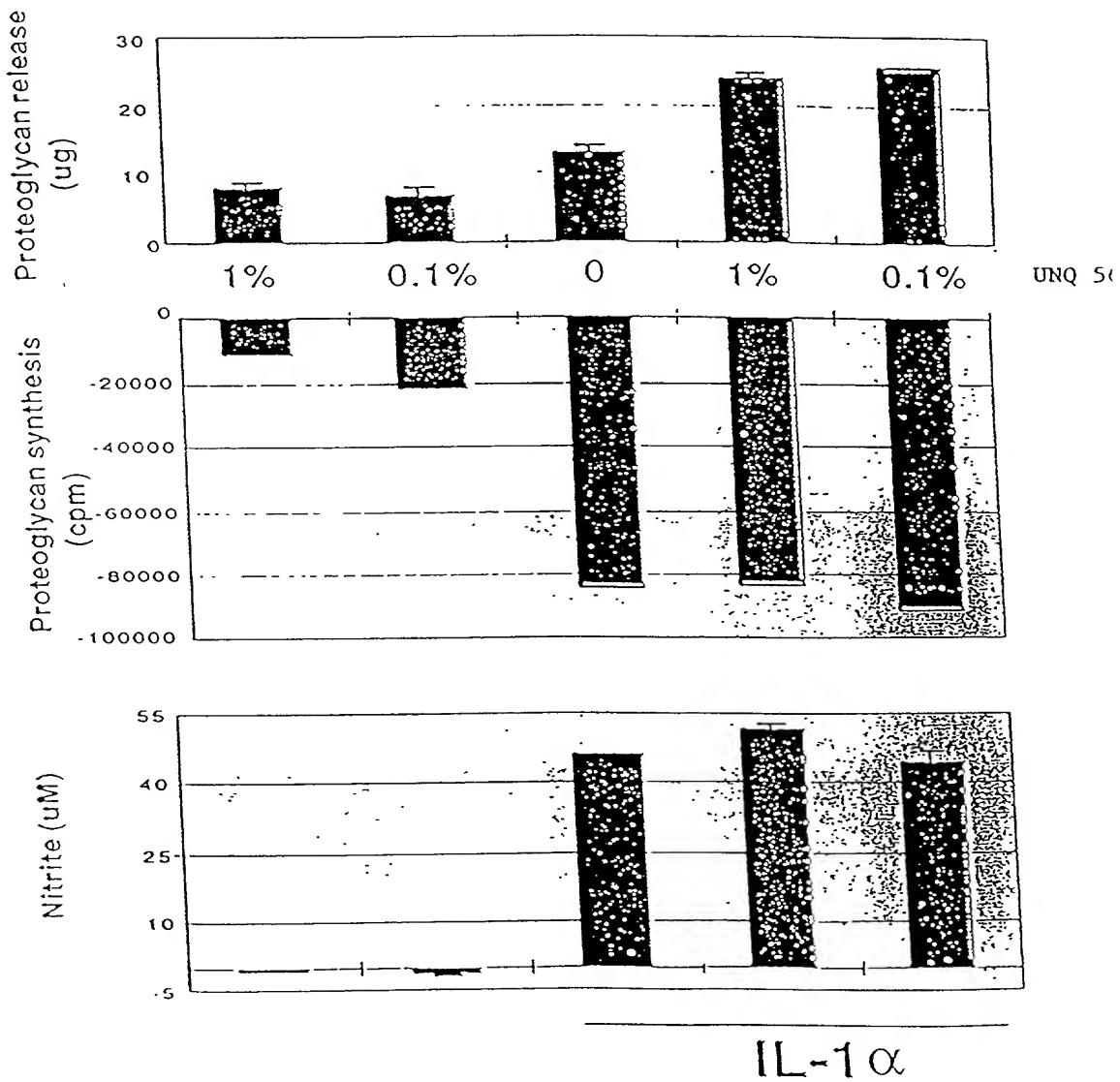


FIGURE 43

IL-17C

detrimental effects on articular cartilage



# Inflammatory Bowel Disease: Expression of IL-17 Family in Mouse Model of IBD

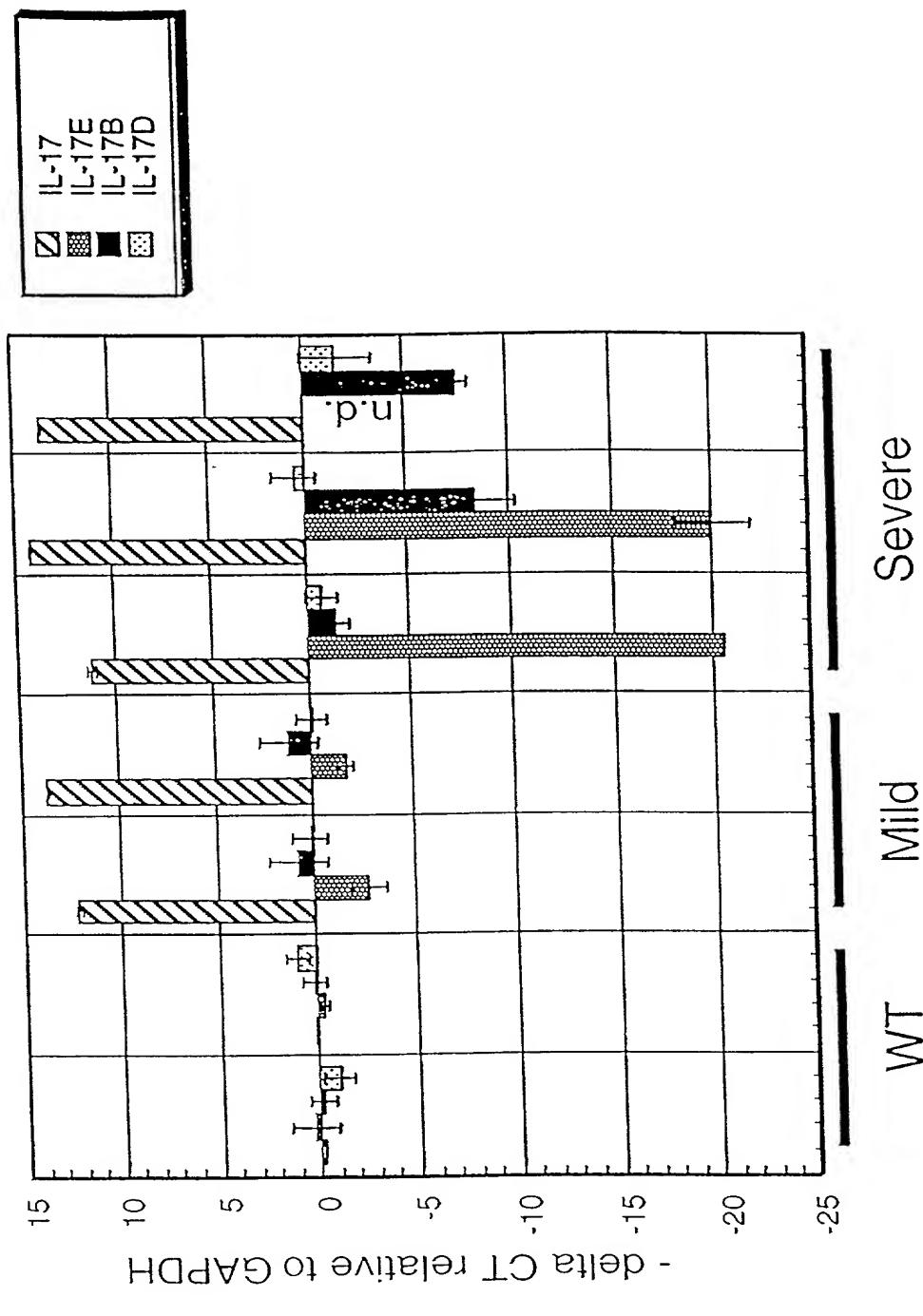


FIGURE 44

IL-17D, present in brain, decreases rapidly  
following stroke

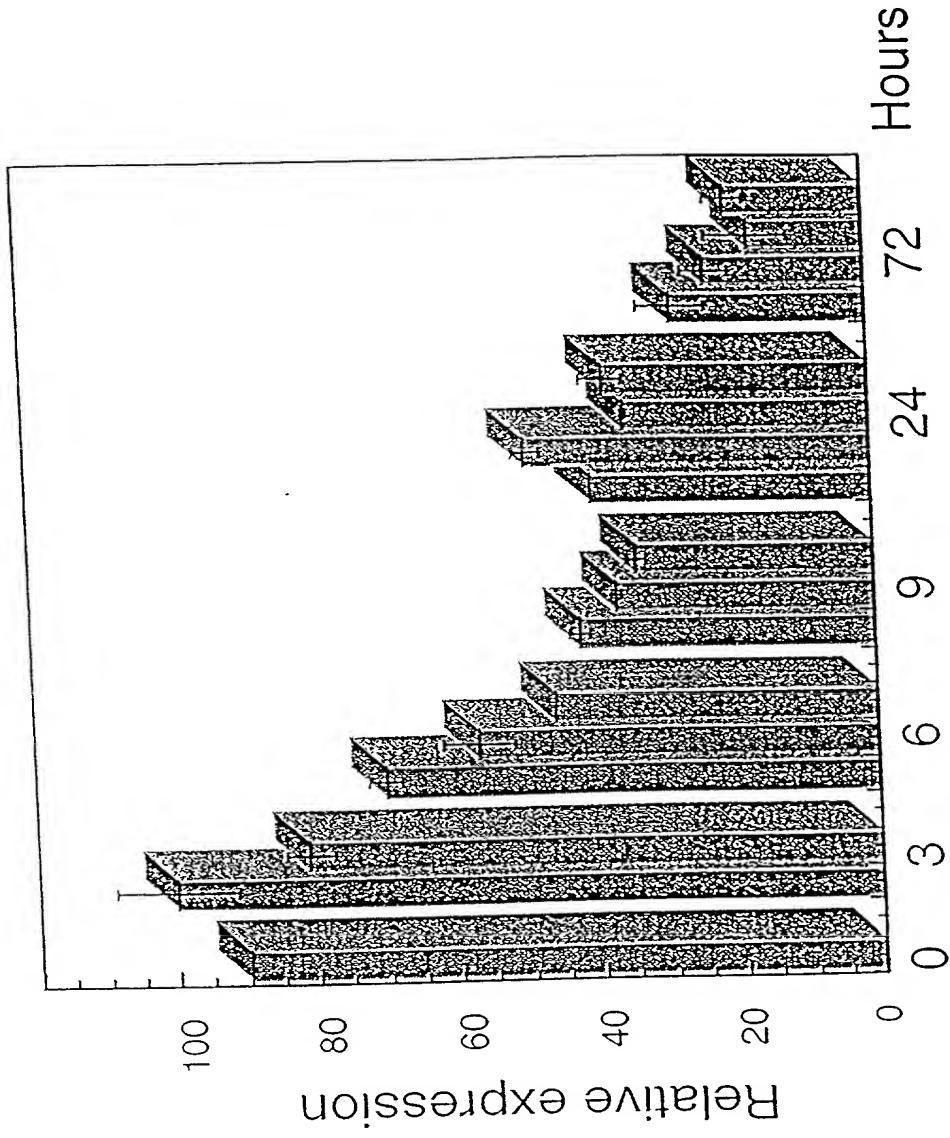
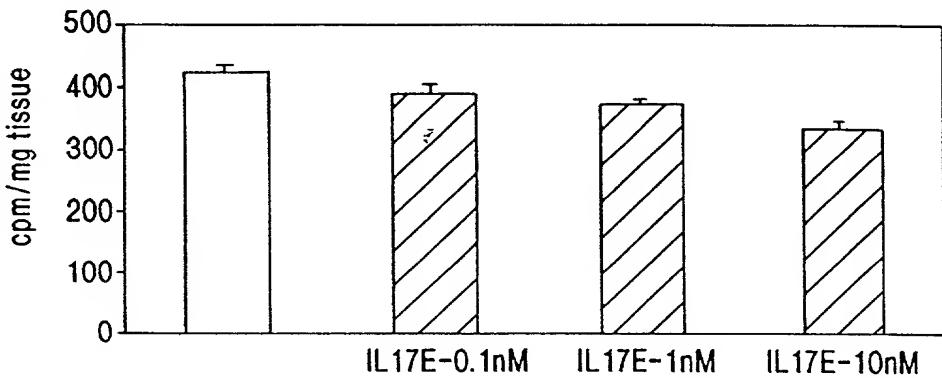
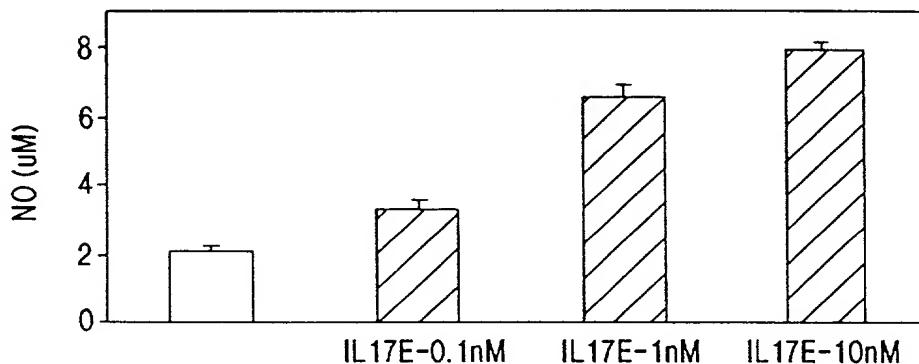
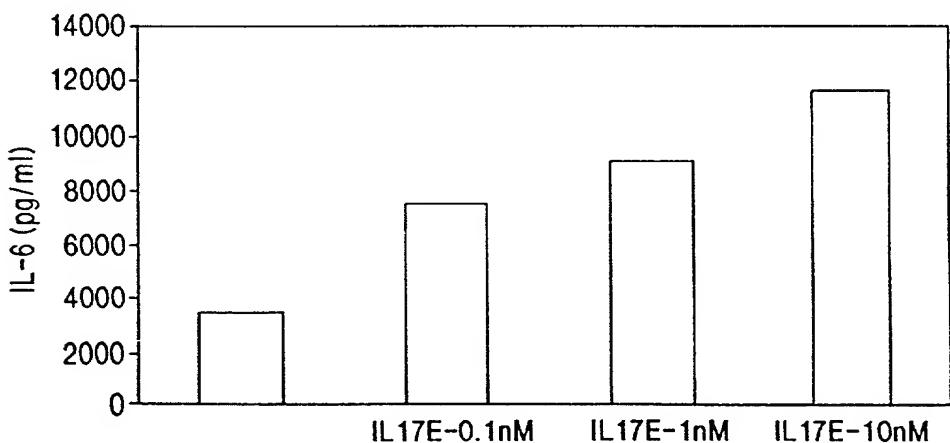
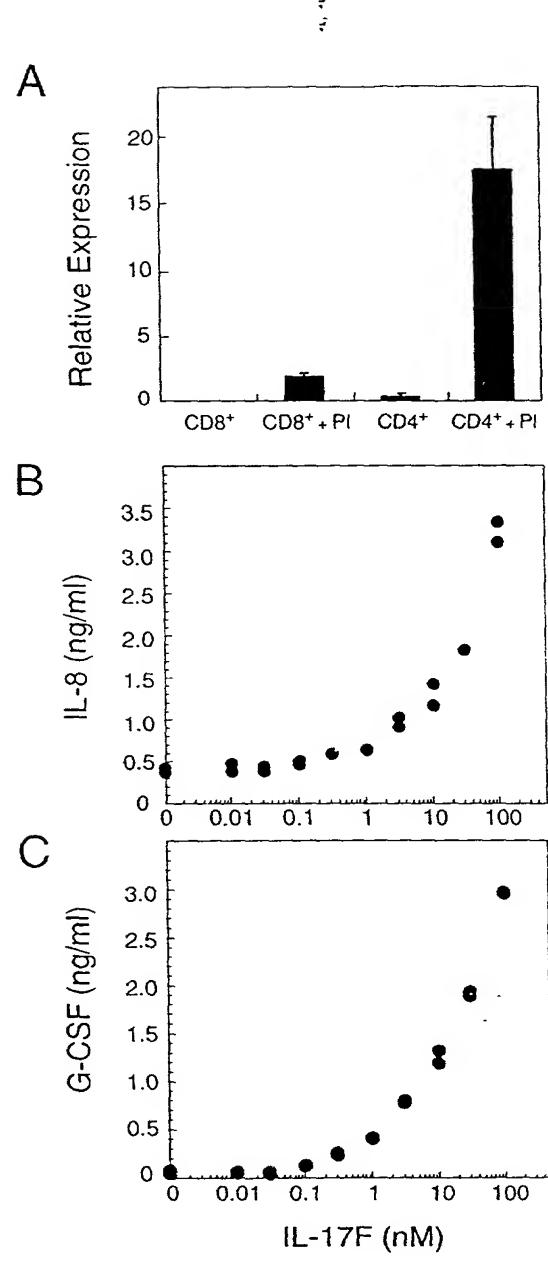


FIGURE 45

**FIGURE 46****FIG. 46A****FIG. 46B****FIG. 46C**

**FIGURE 47**

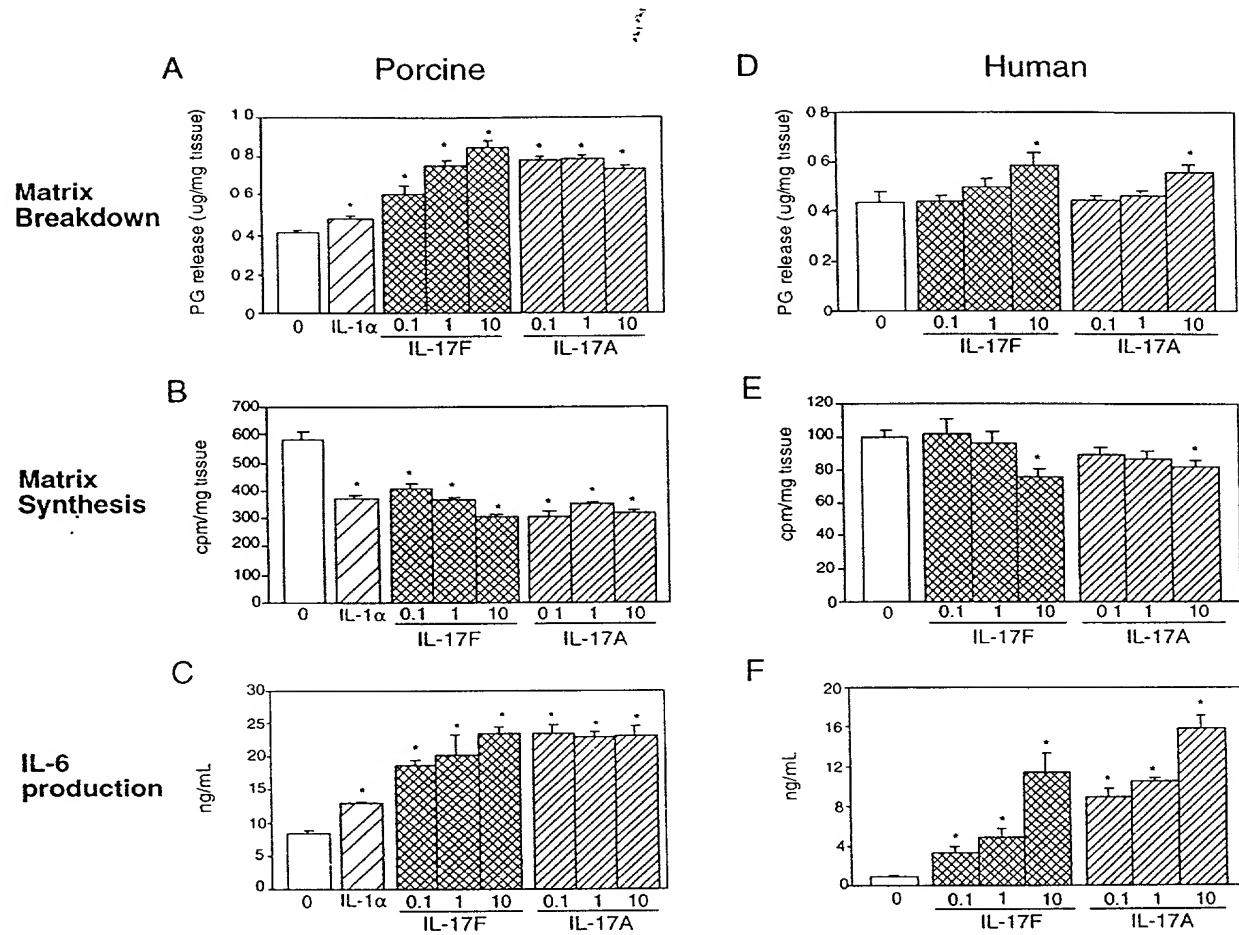
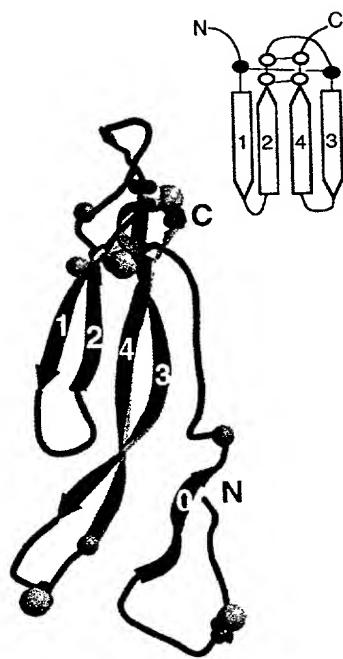
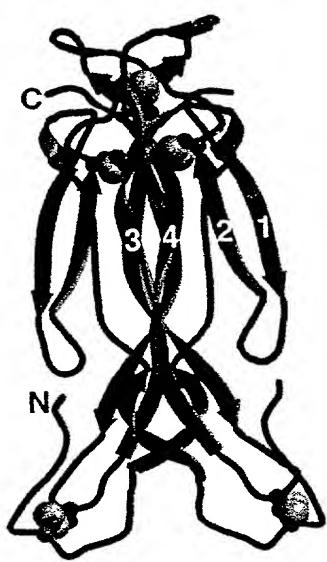
**FIGURE 48**

FIGURE 49

40000 45° 102000



A



B



C

FIGURE 50

*	
IL-17F .....	.....RKIPKVG HTFFQKPES 17
IL-17A .....	.....IVKAG ITIPRNP.G 14
IL-17B .....	.....QPRS PKSKRKGQGR PGPLAPGPHQ VPLDLVSRMK PYARMEYER 44
IL-17C HHDPSLRGHF HSHGTPHYS AEELPLGQAP PHLLARGAKW GQALPVALVS 50	
IL-17E .....	.....YS HWPS PSKG QDTSEELLRW 22

0   1

IL-17F PPVPGG....	.....SMKLDI GIINENQRVS MERNIESRST	PWNYTWTWD 59
IL-17A PNSEDKNFPR	TVMVNLIHN RNTNTN..PK RSSDYYNRST	PWNLHRNED 62
IL-17B NIEEMVAQLR	..NSSELAQR K.EV...NL QLWMSNKRSI	PWGYSINHD 88
IL-17C SLEAAASHRGR	..HERPSATT Q.PVLRPEEV LEADTHQRSI	PWRYRVDTD 98
IL-17E STVPVPPLEP	..ARPNRHPE S.RASE.... .DGPLNSRAI	PWRYELDRD 65

2   3

IL-17F PNRYPSEVVQ	AQ RNLG IN A..QGKEDIS MN VPI.QQE TLVVRKHQG 106
IL-17A PERYPSVIWE	AK RHLG IN A..DGNVDYH MN VPI.QQE ILVLRREPPH 109
IL-17B PSRIPVDLPE	AR L.LG VN PF.TMQEDRS MV VPV.FSQ VPVRRR...L 133
IL-17C EDRYPQKLAF	AE L.RG ID AR.TGRETAAR LN VRL.LQS LLVLRR..RP 144
IL-17E LNRLPQDLYH	AR L.PH VS LQTGSHMDPR GN ELLYHNQ TVFYRRP... 112

4

*		
IL-17F SV.....	.....SFQLEK VL..VTVG T VTPVIHHVQ ...	133
IL-17A PN.....	.....SFRLEK IL..VSVG T VTPIVHHVA ...	136
IL-17B PPPRTGP.	.....RQRA VMETIAVG T IF.....	160
IL-17C SRDGSGLPT	PGAFAFHTEF IH..VPVG T V.LPRSVAA ALE	184
IL-17E HGEKGTHKG	.....YLER RLYRVSLA V VRPRVMG... ...	145

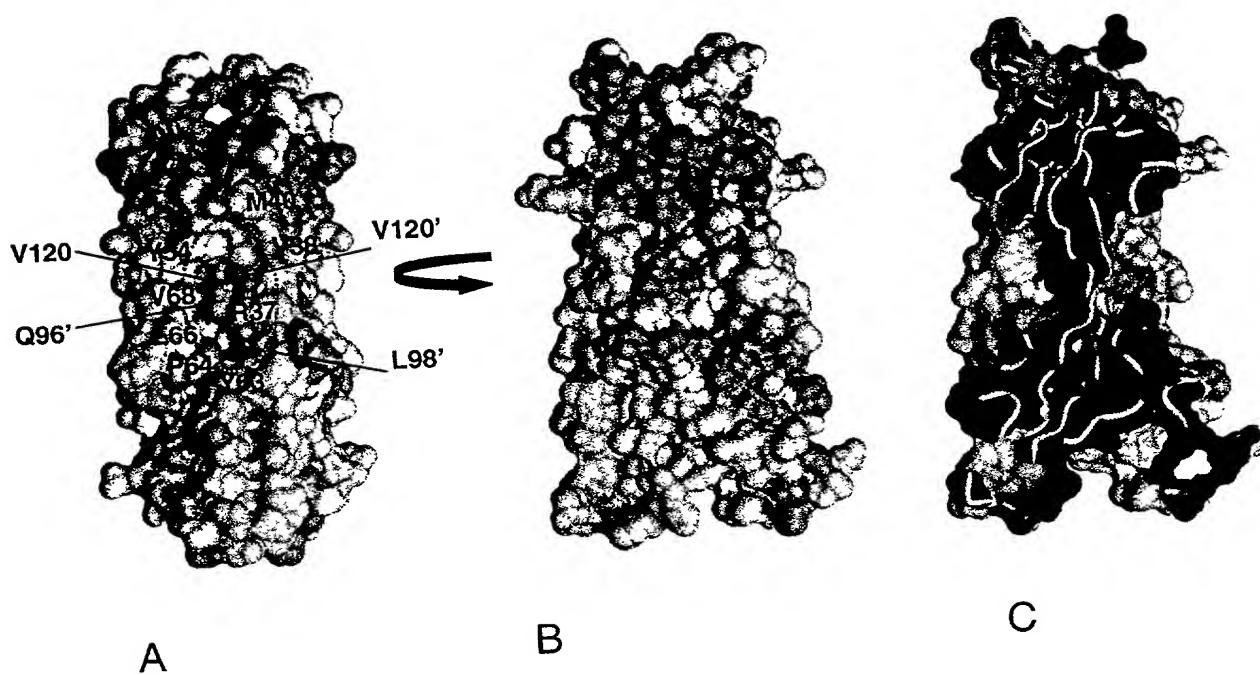
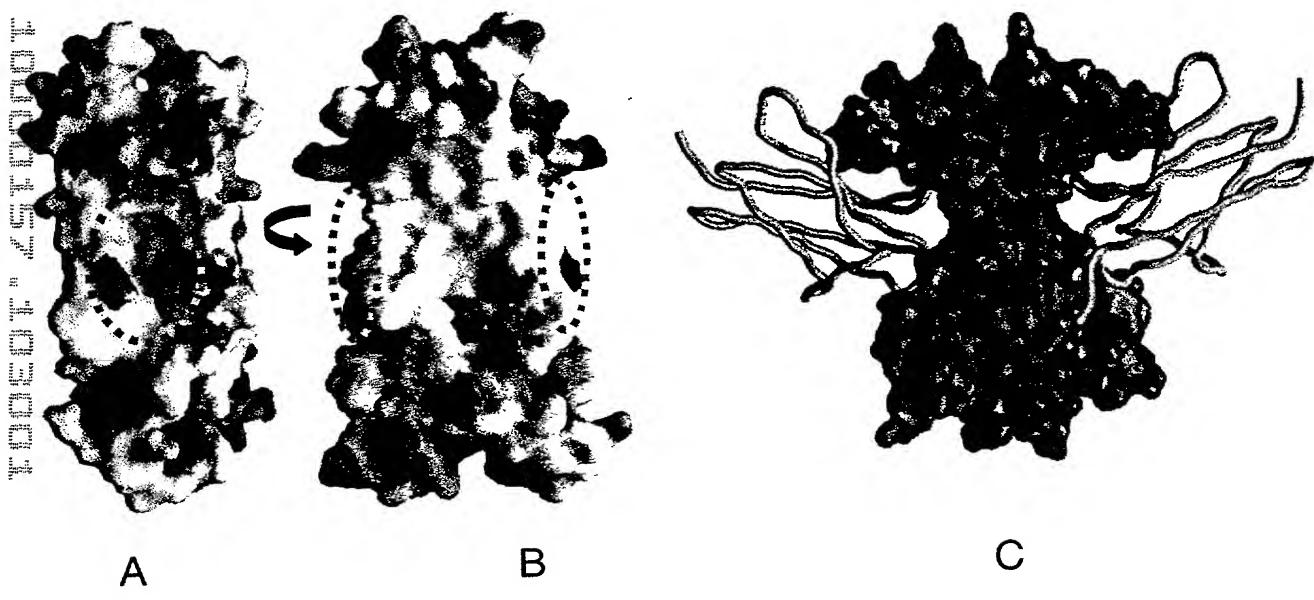
FIGURE 51

FIGURE 52



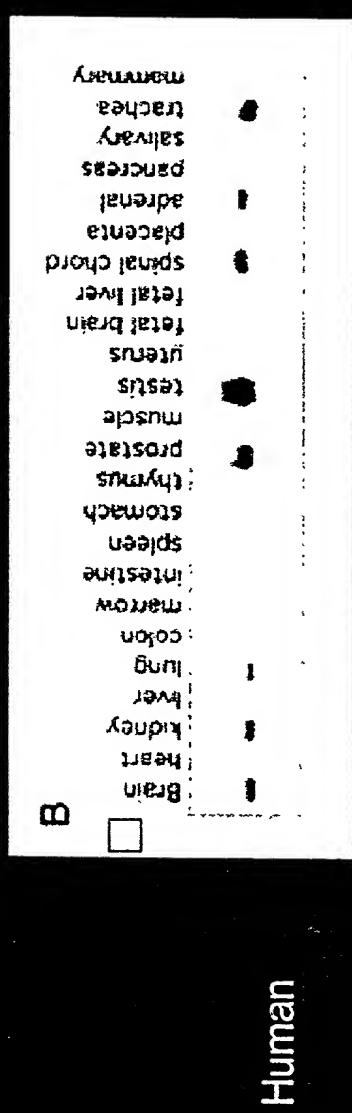
1.0inch 1.5" in 1.030000

# IL-17E is highly conserved between human and mouse

mlL-17E	1	VAF <del>LAMIV</del> <del>GTH</del> T <del>VSLR</del> IQEGC <del>SHL</del> PSCCP <del>S</del>
hL-17E	1	MRERPRLGEDSSLISLFLQVVAFLAMVMG <del>GTH</del> T
-----		
mlL-17E	35	R <del>E</del> Q <del>E</del> P <del>P</del> E <del>W</del> K <del>W</del> S <del>S</del> A <del>S</del> V <del>S</del> P <del>E</del> P <del>L</del> S <del>H</del> T <del>H</del> A <del>E</del> S <del>C</del> R <del>A</del> S <del>K</del> D <del>G</del> P <del>L</del> N <del>S</del> R <del>A</del> I <del>S</del> P <del>W</del> SY
hL-17E	43	R <del>G</del> Q <del>D</del> T <del>S</del> E <del>L</del> R <del>W</del> S <del>T</del> V <del>P</del> V <del>P</del> LE <del>P</del> A <del>R</del> P <del>N</del> R <del>H</del> P <del>E</del> S <del>C</del> R <del>A</del> S <del>K</del> D <del>G</del> P <del>L</del> N <del>S</del> R <del>A</del> I <del>S</del> P <del>W</del> RY
-----		
mlL-17E	85	E <del>L</del> D <del>R</del> D <del>L</del> N <del>R</del> V <del>P</del> Q <del>D</del> L <del>Y</del> H <del>A</del> R <del>C</del> L <del>C</del> P <del>H</del> C <del>V</del> S <del>L</del> Q <del>T</del> G <del>S</del> H <del>M</del> D <del>P</del> L <del>G</del> N <del>S</del> V <del>P</del> F <del>Y</del> H <del>N</del> Q <del>T</del> V <del>F</del> Y <del>R</del>
hL-17E	93	E <del>L</del> D <del>R</del> D <del>L</del> N <del>R</del> L <del>P</del> Q <del>D</del> L <del>Y</del> H <del>A</del> R <del>C</del> L <del>C</del> P <del>H</del> C <del>V</del> S <del>L</del> Q <del>T</del> G <del>S</del> H <del>M</del> D <del>P</del> R <del>G</del> N <del>S</del> E <del>L</del> Y <del>H</del> N <del>Q</del> T <del>V</del> F <del>Y</del> R
-----		
mlL-17E	135	R <del>P</del> C <del>H</del> G <del>E</del> E <del>F</del> T <del>H</del> R <del>R</del> C <del>L</del> E <del>R</del> R <del>L</del> Y <del>R</del> V <del>S</del> L <del>A</del> C <del>V</del> C <del>V</del> R <del>P</del> R <del>V</del> MA
hL-17E	143	R <del>P</del> C <del>H</del> G <del>E</del> K <del>G</del> T <del>H</del> K <del>G</del> C <del>L</del> E <del>R</del> R <del>L</del> Y <del>R</del> V <del>S</del> L <del>A</del> C <del>V</del> C <del>V</del> R <del>P</del> R <del>V</del> MG

FIGURE 53

# Tissue distribution of IL-17E



IL-17E (PCR then probed with cDNA)

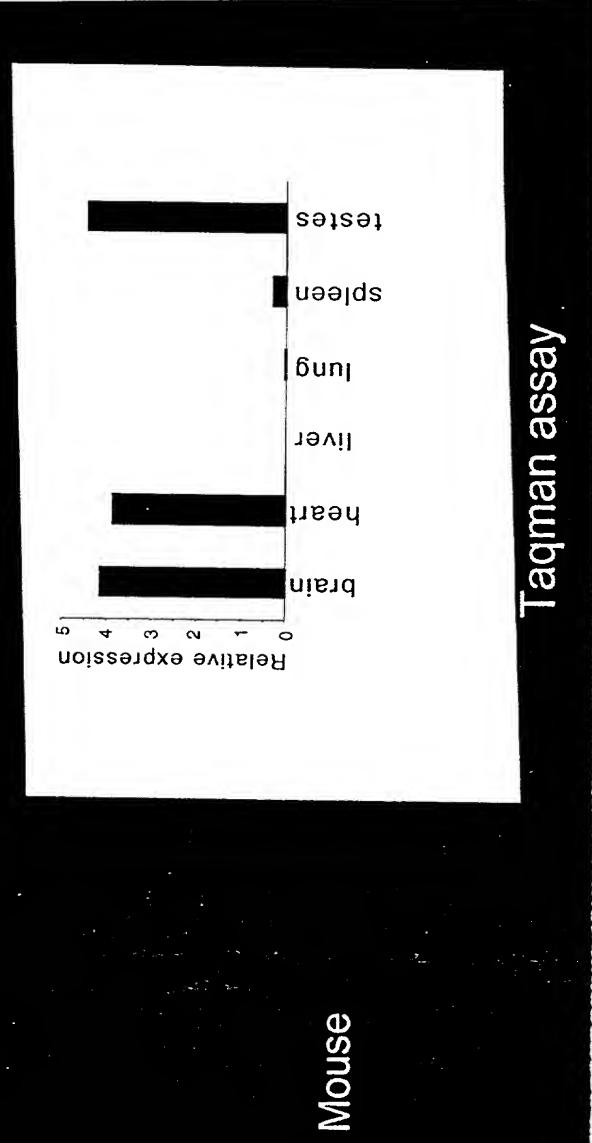


FIGURE 54

mIL-17E transgenics are growth retarded

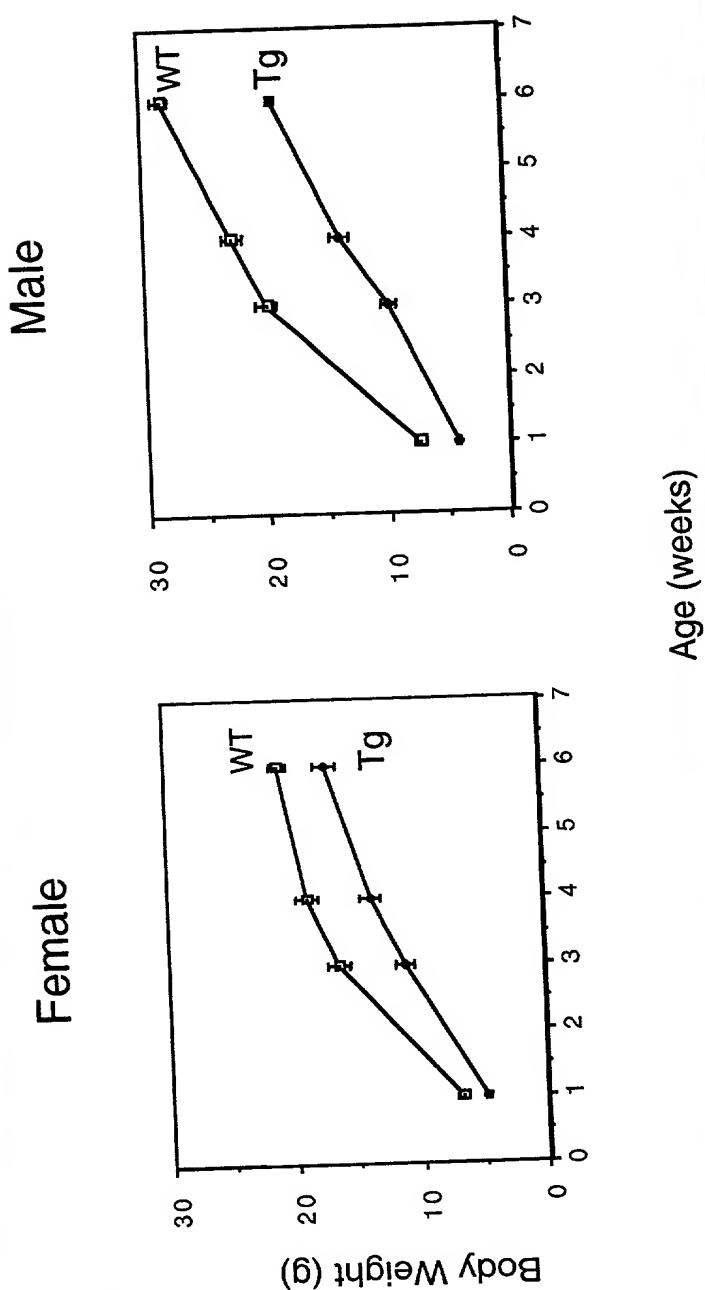
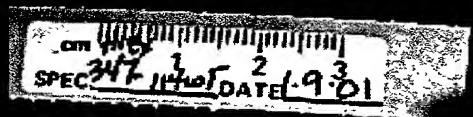


FIGURE 55

IL17E transgenics are jaundiced by 6 weeks of age



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FIGURE 56

# mIL-17E transgenics have elevated total bilirubin and liver enzymes

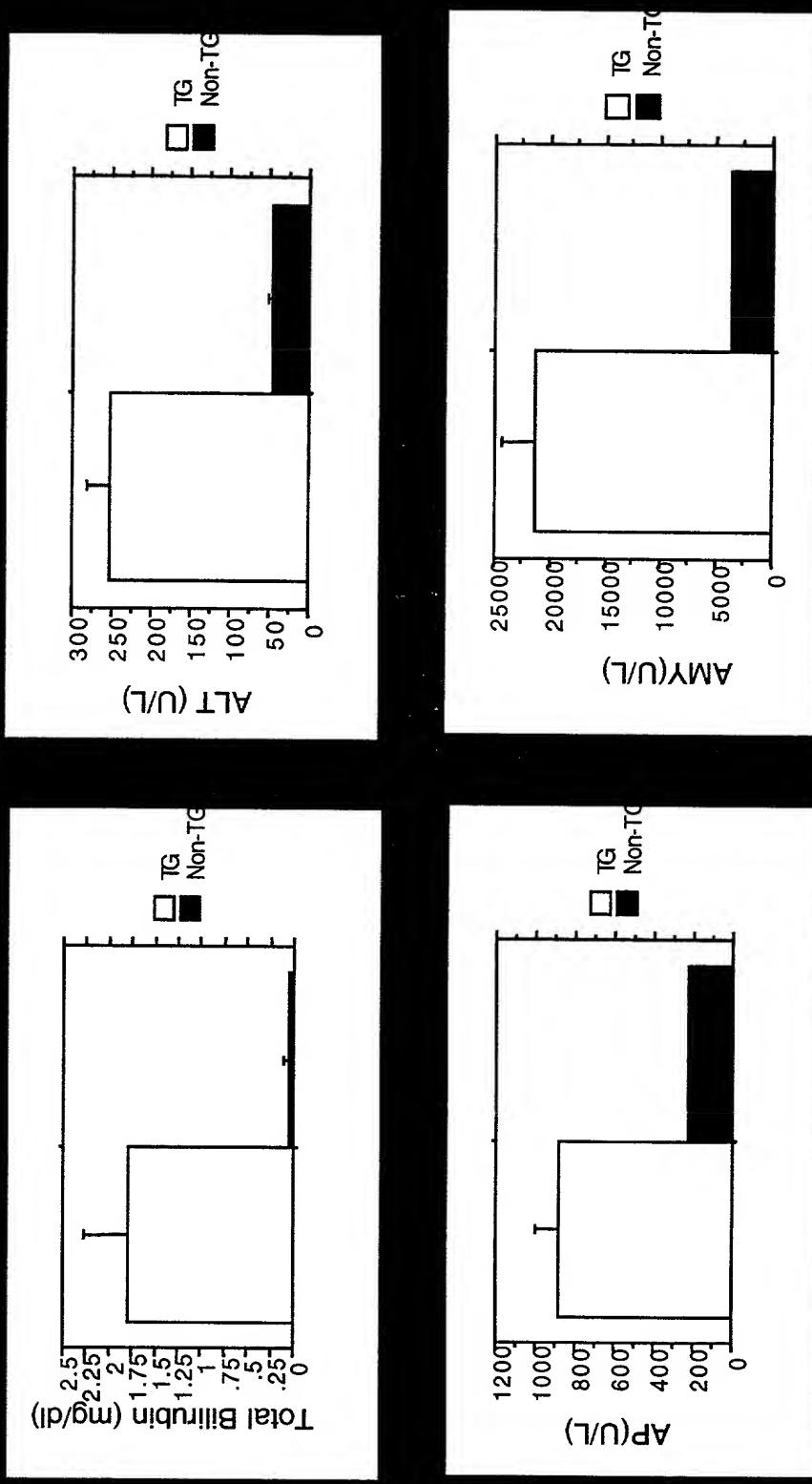


FIGURE 57

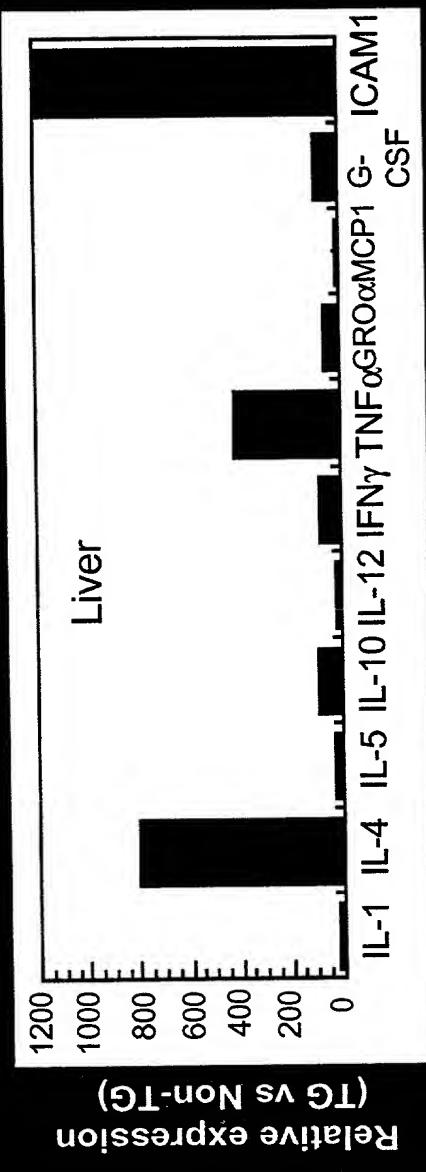
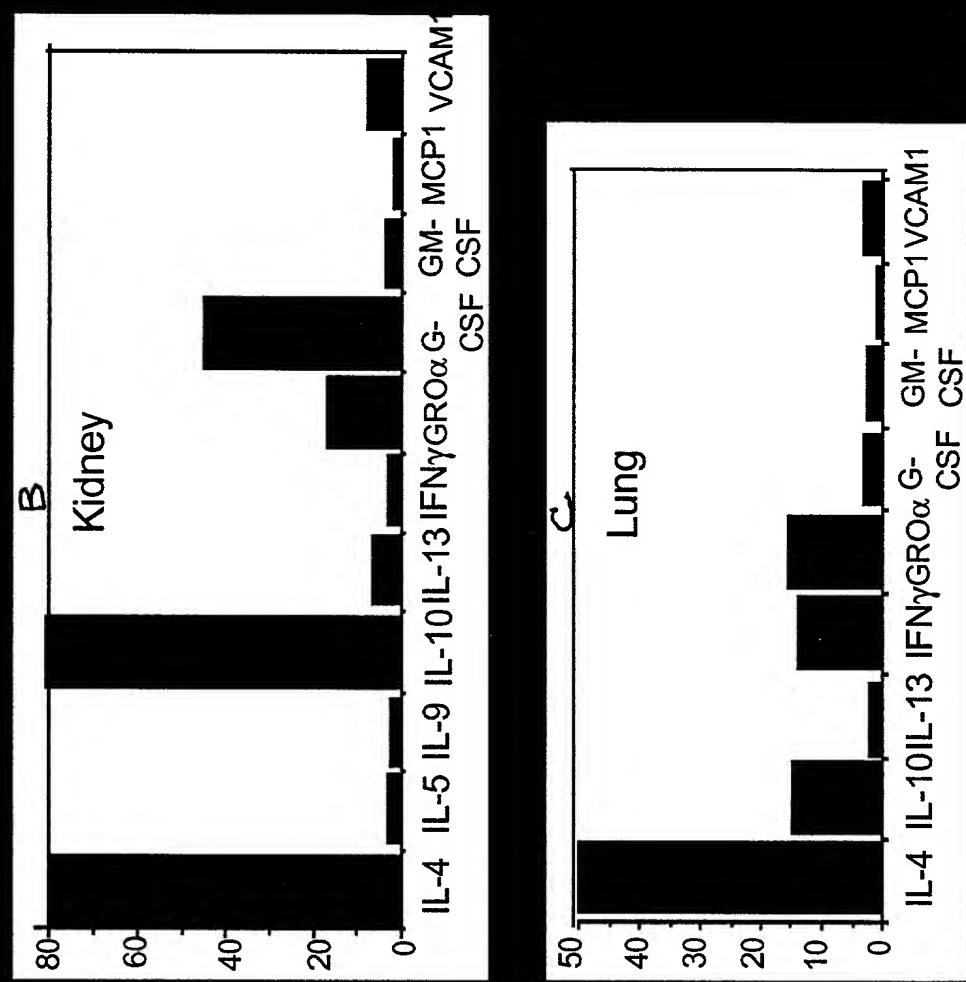


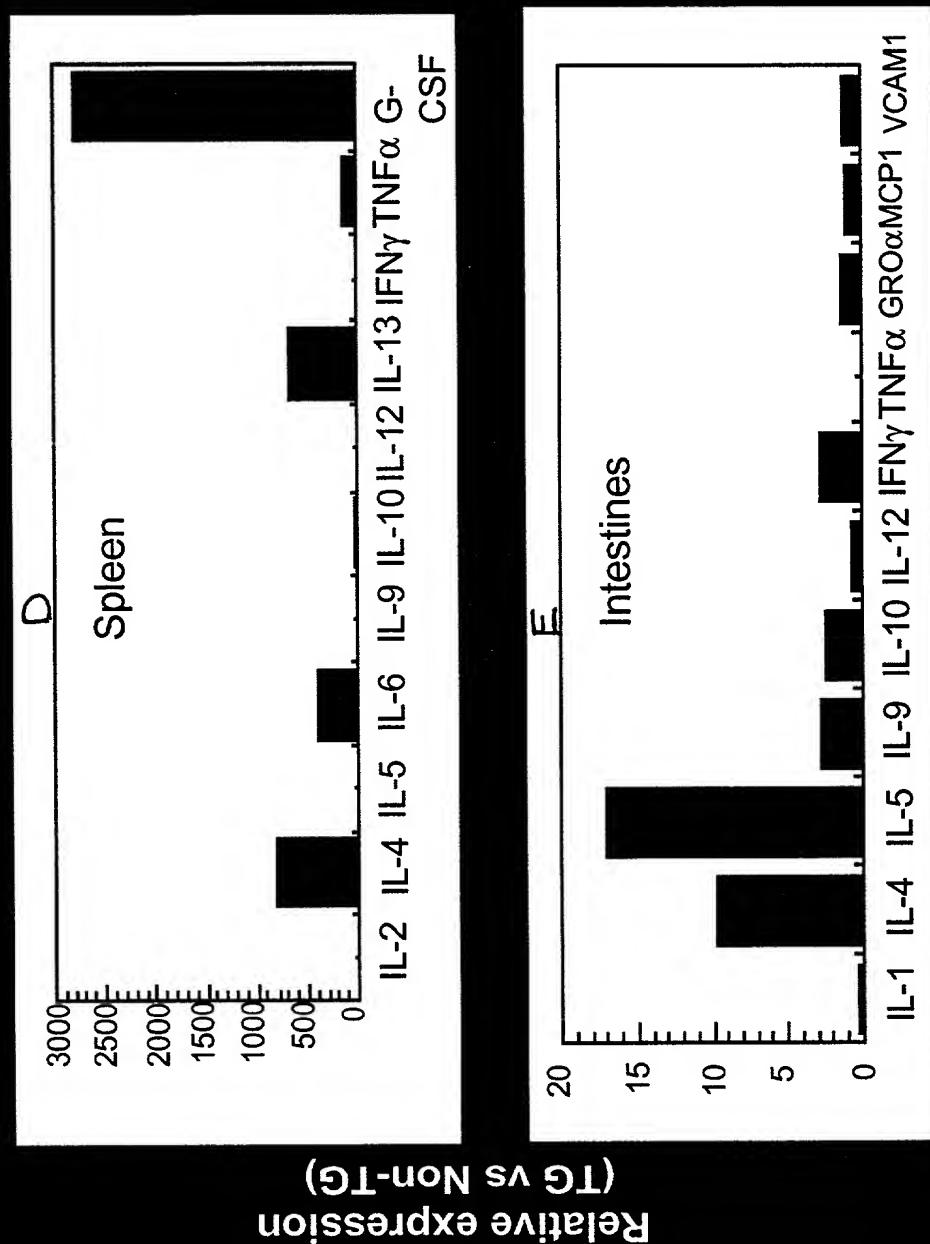
FIGURE 58A

Relative expression  
(TG vs Non-TG)



FIGURES 58B - 58C

# Gene profiling of IL-17E transgenics (Taqman)



FIGURES 58D - 58E

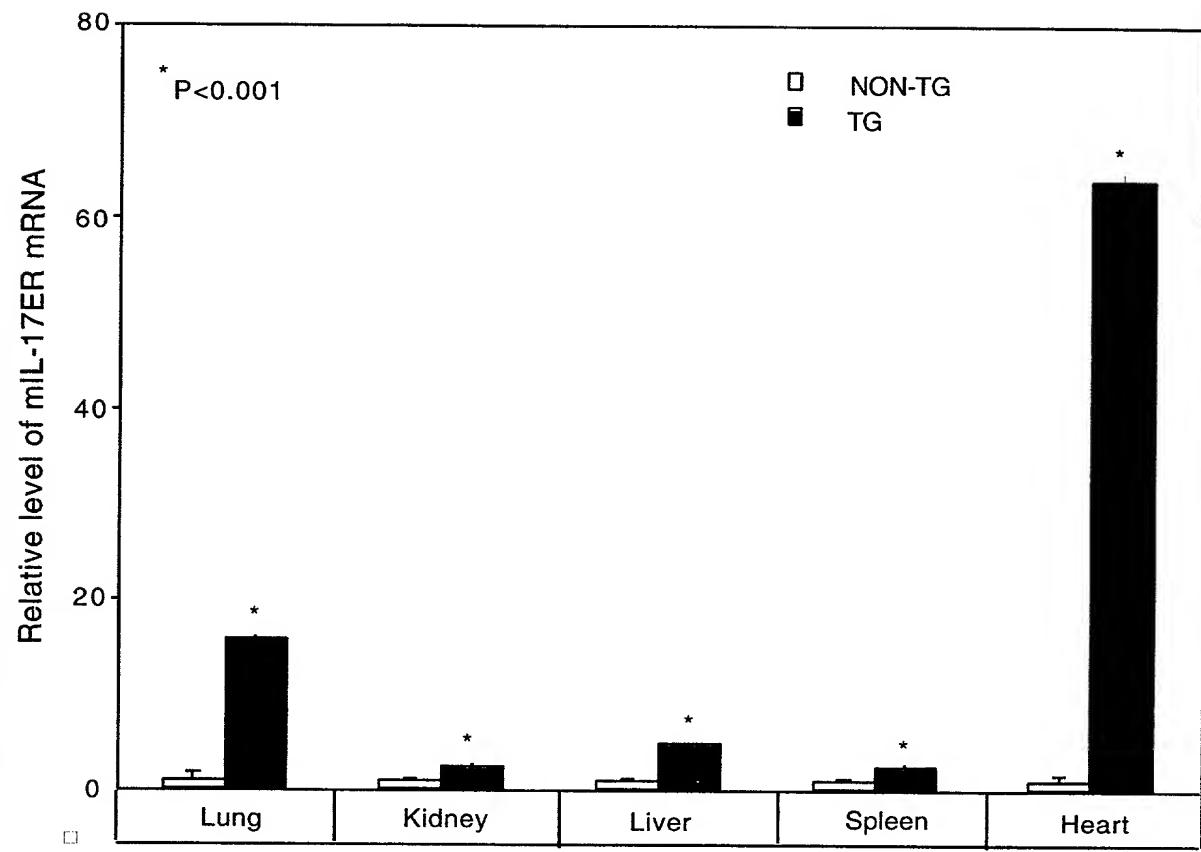
**FIGURE 59**

FIGURE 60

## Elevated serum IL-5, IL-13 and TNF $\alpha$ in mIL-17E transgenics

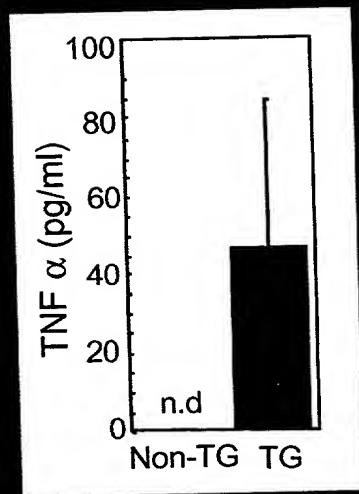
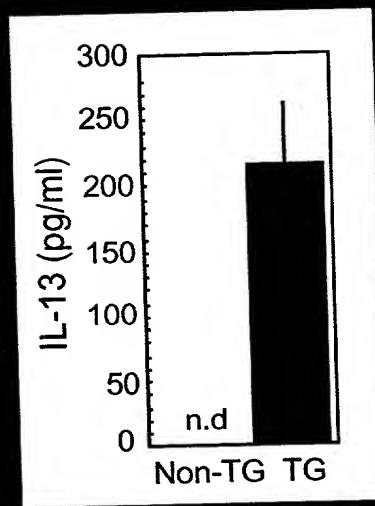
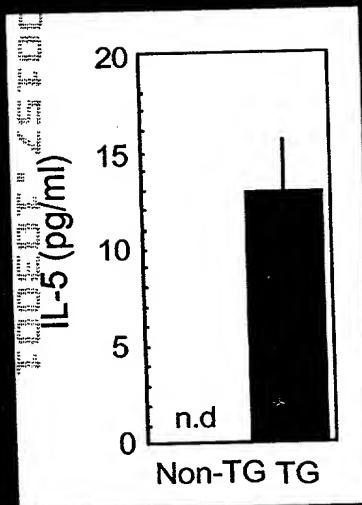


FIGURE 61

Serum IgE and IgG1, but not IgG2a is elevated in mIL-17E transgenics

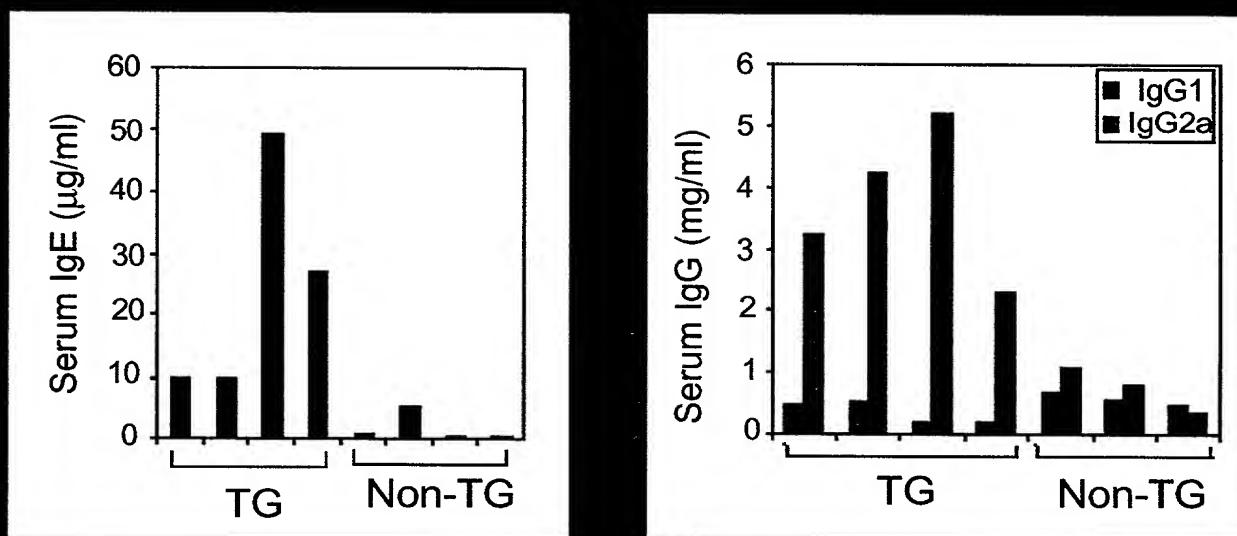


FIGURE 62

## Neutrophilia in mIL-17E transgenics (8 wks, PBMC by FACS)

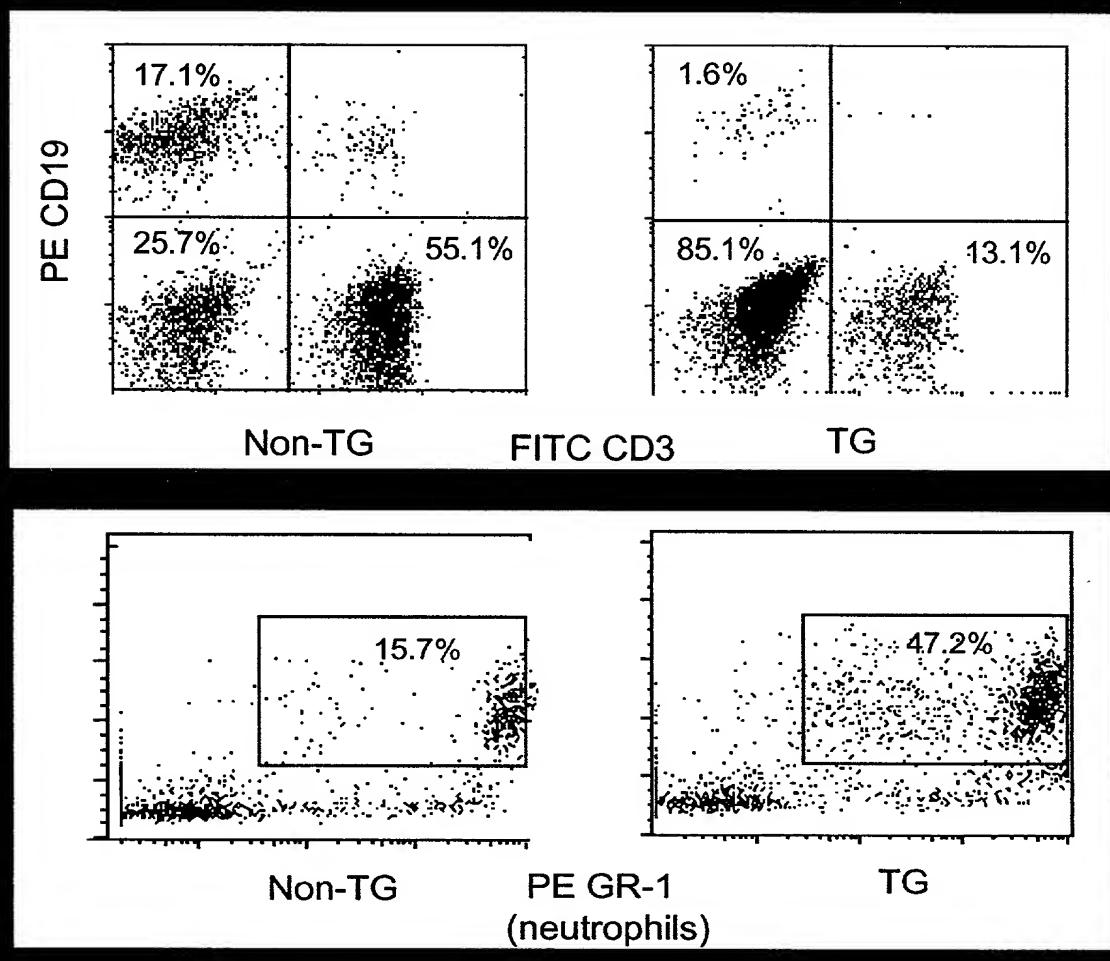


FIGURE 63

## Neutrophilia and eosinophilia in mIL-17E transgenics (hematology)

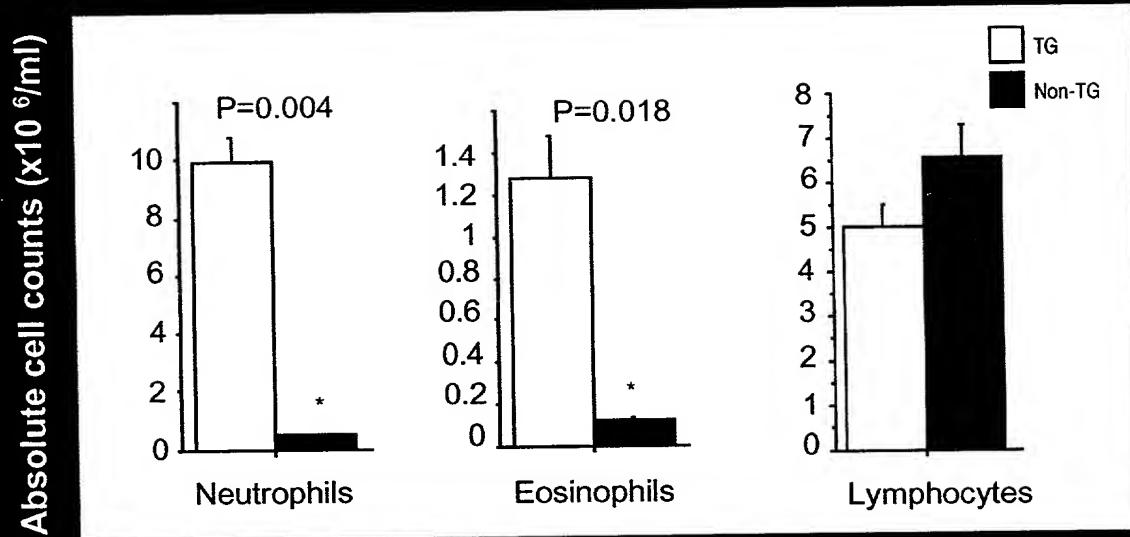


FIGURE 64

G-CSF is elevated  
in mIL-17E transgenics

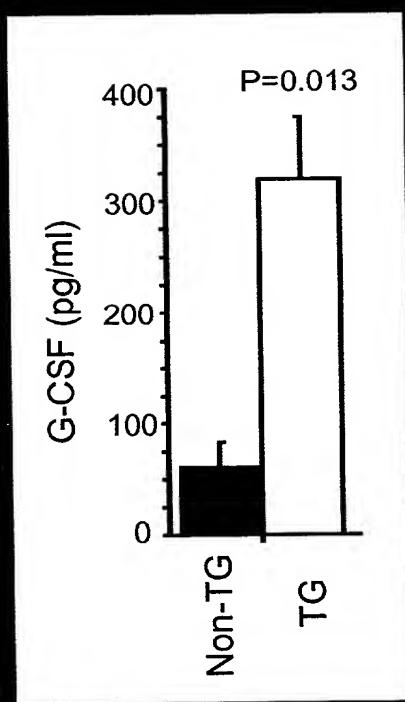


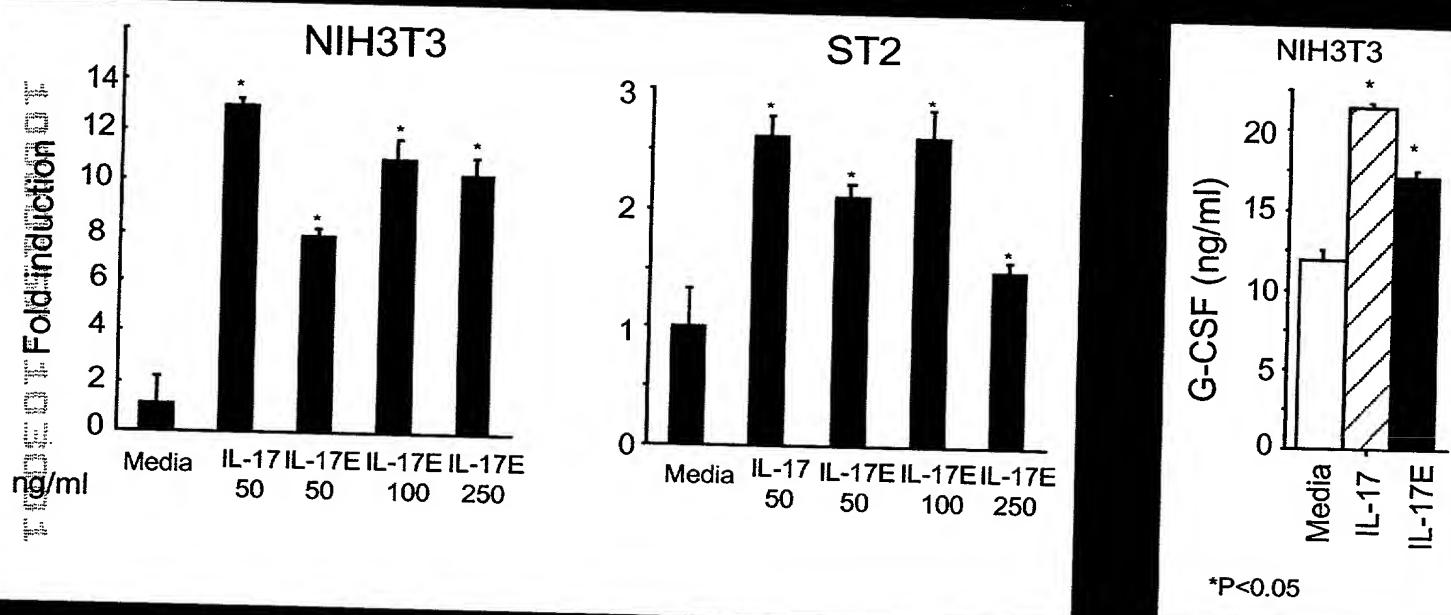
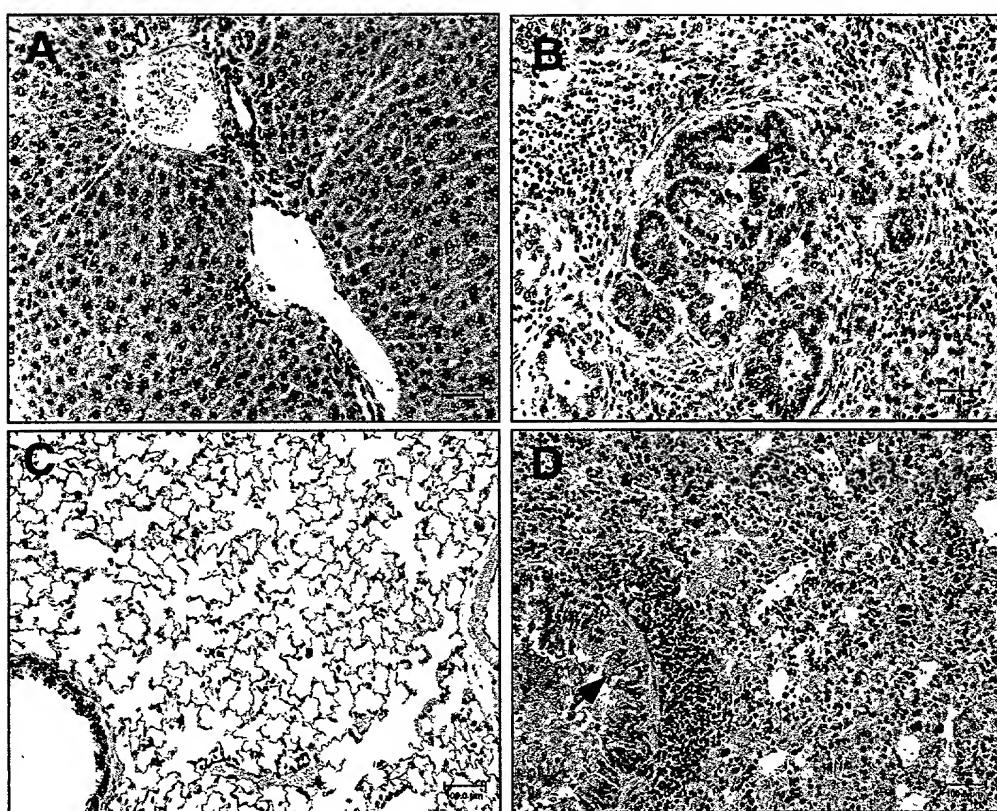
FIGURE 65

FIGURE 66



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